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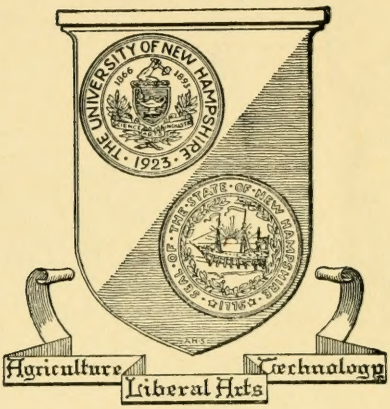

The University
of
New Hampshire

Bulletin 327 July, 1940

THE UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
Department of Agricultural and Biological Chemistry

Inspection of Commercial Feeding Stuffs

1940

Made for the
State Department of Agriculture

By T. O. Smith and H. A. Davis

The University of New Hampshire
Durham, N. H.

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INSPECTION OF COMMERCIAL FEEDING STUFFS

Made for the State Department of Agriculture

The inspection of commercial feeding stuffs reported in this bulletin was made under the direction of Honorable Andrew L. Felker, Commissioner of Agriculture. Mr. E. D. Sanborn, State Inspector, collected samples of 495 brands of feeding stuffs which were offered for sale in the State during the year ending June, 1940. This is the largest number of samples analyzed during any inspection year to date. The 495 samples represent brands of 115 manufacturers.

Registration and Labeling of Feeding Stuffs

Registration:—The New Hampshire law, entitled an Act to Regulate the Sale of Concentrated Commercial Feeding Stuffs, requires registration with the Commissioner of Agriculture of each brand offered for sale. This is usually done by the manufacturer or jobber whether he is located within or outside the State. Feeding stuffs manufactured in other states frequently pass through several middlemen before they reach the local distributor. Under the provisions of the law if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale must assure themselves the brands they purchase are properly registered and the license fee paid or assume that responsibility. The official charged with the administration of the law is the Commissioner of Agriculture. All matters relative to registration and all inquiries concerning the law should be addressed to the Commissioner of Agriculture, State House, Concord.

Labeling:—The law requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feeding stuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in

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the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein, fat and carbohydrates, and the maximum percentage only of crude fiber. In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved twenty-one general regulations which "should be adopted by state officials as far as the statutes will permit." There are no conflicts in these regulations with the New Hampshire feeding stuffs law. Manufacturers and dealers are, therefore, expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

One sentence in the New Hampshire feeding stuffs law reads as follows: "And shall state in bold type upon the container or a tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception which may result from the manufacturer's using indefinite terms in listing the ingredients, the Association of American Feed Control Officials has adopted 157 official definitions of ingredients used in the compounding of feeding stuffs. These definitions are subject to frequent addition and revision. At the present time there are also 11 tentative definitions and 15 definitions that have been suggested for future discussion. Tentative definitions are those which have received favorable consideration, but have not yet been made official. The 135 definitions which had been adopted as official when the 1937 feeding stuffs bulletin was published, were included in that bulletin, pp. 7-23, with a view to assisting the manufacturers in listing the ingredients with accuracy and uniformity. A few copies of the 1937 bulletin are still available for free distribution. A 42-page booklet containing the 157 definitions which have now been made official, the 21 general regulations and other instructive material may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland, at twenty-five

cents per copy. The manufacturer should secure a copy of one of these booklets and list the ingredients accurately. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser is warranted in concluding that the manufacturer who is inaccurate in naming the ingredients printed on the tag will be equally inaccurate in selecting the ingredients he puts into the bag.

Purpose Of The Feeding Stuffs Law

The chief purpose of the feeding stuffs law is to protect the consumer against the inferior products which would doubtless soon appear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser of feeding stuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The feeding stuffs law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer in purchasing feed from the manufacturer, and the consumer in purchasing feed from the dealer, should make these specifications: "The feed delivered on this order must comply with the New Hampshire feeding stuffs law. If the feed is not registered; if the protein, fat, carbohydrates and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or on a tag attached thereto, the purchaser is not protected by the state feeding stuffs law. He has no recourse under the feeding stuffs law if the feed which he purchases is of inferior quality. The dealer who offers for sale a feeding stuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confi-

dence or the patronage of the consumer. The purchaser's co-operation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time afford the purchaser himself the protection of the law. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feeding stuff at his own risk.

How Cost Of Inspection Affects Price

The cost of the feeding stuffs inspection includes the drawing and the analysis of the samples, and the publication of the annual bulletin. It is charged to the funds paid by the manufacturer in license fees. Since this cost is finally paid by the purchaser, he is interested in the effect of these costs on the retail price per ton. According to the latest available figures of the Bureau of the Census of the United States Department of Commerce, the retail price of the commercial feeds consumed annually in the state is in excess of seven million dollars. A calculation based on this valuation and the known costs of the inspection shows the cost to the purchaser is less than four cents per ton of feed, a fraction of a cent per one hundred pound bag.

Samples Failing To Comply With the Law

One hundred seventy-six of the 495 brands analyzed failed to comply with the law in every respect, violating it on 221 counts. More than ninety per cent of the violations, however, are negligible if considered on the basis of the value of the feed to the purchaser.

Thirty-four brands, or 6.9 per cent, were below guarantee in protein. Fourteen of these were less than one-half per cent below guarantee. Eleven were more than one-half per cent but less than one per cent below guarantee. Nine were below guarantee more than one per cent. The greatest protein deficiency was 1.91 per cent.

Sixty-four brands, or 12.9 per cent, were below guarantee in fat. Thirty-one of these were less than one-fourth per cent

below guarantee. Thirty-two were more than one-fourth per cent but less than one per cent below guarantee. One was more than one per cent below guarantee. The greatest fat deficiency was 1.21 per cent.

Thirty-seven brands, or 7.5 per cent, contained an excessive amount of crude fiber. Sixty-three brands were below guarantee in carbohydrates. Twenty-three samples failed to carry the carhobydrates guarantee. In the analysis of a feeding stuff, the percentage of carhobydrates is usually determined indirectly. It is found by substracting the sum of the percentages of protein, fat, moisture and ash from 100. It is obvious that an excess of protein or fat over the manufacturer's guarantee decreases the percentage of carbohydrates found. Nearly all of this year's carbohydrates deficiencies are due to the protein or fat or both exceeding the guarantee.

Manganese was listed as an ingredient in 111 brands. In 44 of these brands the amount added was specified. Since different manganese compounds were added as a source of manganese and different forms of stating the amount of the manganese compound added were used, all were calculated to parts per million of the element maganese. The amount of manganese present in the 44 brands containing a specified amount was determined by analysis. The results of the analysis are shown in the list of ingredients. Only one of the 44 brands analyzed failed to contain as much manganese as was declared. In many cases the amount of manganese found is considerably in excess of the amount declared added by the manufacturer. This excess may be due to the manganese naturally occurring in the ingredients.

In the tabulation of the analytical figures, pp. 12 to pp. 106 inclusive, those figures one-half per cent or more below guarantee in protein, one-fourth per cent or more below guarantee in fat, and one per cent or more above guarantee in crude fiber are printed in bold-faced type.

Table I shows the percentage of samples failing to conform to the guarantee in each of the last fifteen years.

TABLE 1. PERCENTAGE OF SAMPLES ANALYZED IN YEARS 1926-1940 THAT DO NOT CONFORM TO GUARANTEES.

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber	Per cent low in Carbohydrates	Per cent with no Carbohydrates guarantee
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more			
1926	8.0	16.0	4.0	10.0	6.0	6.5	22.5
1927	8.3	16.4	5.8	13.6	5.9	17.9	14.4
1928	9.1	20.7	4.3	9.3	7.9	10.6	11.7
1929	9.5	20.2	2.8	9.3	6.5	10.3	9.5
1930	4.8	13.1	4.0	8.0	3.9	16.5	16.2
1931	1.8	7.2	5.9	9.7	5.3	15.6	11.2
1932	1.8	1.4	5.0	8.1	2.8	15.5	16.9
1933	1.3	3.6	7.5	9.8	3.6	18.1	5.9
1934	3.0	3.4	3.9	7.1	9.8	16.4	6.6
1935	2.4	3.0	4.2	8.5	9.9	19.8	5.4
1936	2.9	5.2	5.5	8.3	12.2	18.0	0.5
1937	2.8	4.2	3.0	6.0	11.0	21.7	0.0
1938	2.9	8.1	9.8	10.8	11.5	15.1	0.6
1939	1.9	3.3	6.8	9.3	8.7	13.6	7.6
1940	2.9	4.0	6.2	6.7	7.5	12.7	4.6

Requests By Individuals For The Analysis Of Feeding Stuffs

Under the feeding stuffs laws the Agricultural Experiment Station is charged only with the analysis of samples of feeding stuffs collected by the State Inspector under the direction of the Commissioner of Agriculture. It does, however, each year analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. The object of the purchaser who asks to have the sample analyzed is usually to satisfy himself whether the feed meets its guarantee and if it does not, to obtain evidence upon which to base a claim for shortage.

The Station can assume no responsibility for the sampling of these unofficial samples but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feeding stuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat mill feed averaging five per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a ton of this feed can only be had by drawing a core from several bags. The official method requires ten. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis

is as accurately representative as possible of the larger lot from which it is taken. Because of the cost of labor and materials, an analysis is not usually warranted on a sample drawn from less than a one ton lot of feed.

A one pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent loss of fine particles or a change in the moisture content. In order that the Department may have a satisfactory record of the sample analyzed, and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand .....

Manufacturer .....

Address .....

Guarantee:

Protein .....

Fat .....

Carbohydrates .....

Moisture .....

Ash .....

Crude Fiber .....

Ingredients .....

. .....

. .....

Dealer .....

Address .....

Number of bags in lot .....

Number of bags sampled .....

Price per 100 pounds .....

Your name .....

Your address .....

Your reason for requesting analysis .....

.....

Manufacturer / Brand		Pounds in 100 lbs. of Feeding Stuffs: Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
Albers Bros. Milling Co. Seattle, Wash.								
Calf Manna, the Condensed Calf Ration	G.	25.00	4.00	53.00	....	....	5.00	Powdered skimmed milk, oat meal, ground corn, soluble meat extract, linseed oil meal, ground hulled barley, ground wheat, wheat brown shorts, dextrose, soybean oil meal, cocoanut oil meal, cod liver oil, oyster shell flour, 1% steamed bone meal, 1% iodized salt, 1% anise.
	F.	27.75	4.36	52.31	7.00	8.58	3.53	
E. T. Allen Co. Atlanta, Ga.								
Empire 41% Protein Cottonseed Meal..	G.	41.00	5.50	38.00	....	....	13.00	Made from cottonseed only.
	F.	41.11	6.09	38.97	5.87	7.96	10.37	
Allied Mills, Inc. Chicago, Ill.	G.	20.00	3.50	51.00	....	....	11.00	Soybean oil meal, cottonseed meal, corn meal, corn distillers' dried grains, brewers' dried grains, corn gluten feed, ground oats, wheat bran, cane molasses, 2% ground limestone, 1% salt, 0.5% steamed bone meal, 0.03% iron oxide, 0.0005% potassium iodide.
Economy 20% Dairy Feed	F.	21.36	4.43	58.11	8.56	7.54	10.62	
Red Feather Egg Mash	G.	18.00	3.50	53.00	....	....	8.00	Dried skim milk, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, wheat bran, wheat standard middlings, corn gluten feed, corn meal, fine ground oats, 2% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 193 p. p. m. Mn.
	F.	19.22	4.61	59.08	7.90	9.19	7.31	

Red Feather Growing Mash	G. 15.50 F. 16.99	3.50 4.25	55.00 62.21	.... 7.33	.... 9.22	7.00 5.93	Corn meal, wheat bran, soybean oil meal, fine ground oats, meat scraps, fish meal, corn gluten meal, wheat standard middlings, dehydrated alfalfa meal, dried skim milk, 1.5% ground limestone, 0.04% iron oxide, 0.0005% potassium iodide, 0.25% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.04% manganese sulphate equivalent to 98 p. p. m. of manganese. Found 158 p. p. m. Mn.
Sugarine 16½% Dairy Feed	G. 16.50 F. 20.71	3.00 4.39	57.00 60.28	.... 7.56	.... 7.06	12.00 10.14	Corn distillers' dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, corn gluten meal, cottonseed oil meal, corn meal, wheat bran, 8% ground and bolted screenings from flax, wheat, corn, oats and barley, oat mill feed (oat hulls, oat shorts, oat middlings), cane molasses, 1% ground limestone, 1% salt.
Sugarine 20% Dairy Feed	G. 20.00 F. 22.42	3.50 4.00	52.00 56.84	.... 7.78	.... 8.96	12.00 8.53	Corn distillers' dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, wheat bran, 5% ground and bolted screenings from flax, wheat, corn, oats and barley, oat mill feed (oat shorts, oat hulls, oat middlings, cane molasses, 1% ground limestone, 1% salt.
Sugarine 24% Dairy Feed	G. 24.00 F. 25.39	3.50 4.21	50.00 52.63	.... 8.01	.... 9.76	12.00 8.94	Corn distillers' dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, cottonseed oil meal, corn meal, wheat bran, 5% ground and bolted screenings from flax, wheat, corn, oats and barley, oat mill feed (oat hulls, oat shorts, oat middlings), cane molasses, 1% ground limestone, 1% salt.

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Wayne All Mash Poultry Ration	G. 15.00 F. 17.47	3.50 5.05	57.00 60.11	.... 8.18	.... 9.19	7.00 7.22	Fish meal, meat scraps, animal liver meal, soybean oil meal, corn meal, corn gluten meal, fine ground oats, wheat standard middlings, wheat bran, dehydrated alfalfa meal, corn gluten feed, dried skim milk, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 2% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 168 p. p. m. Mn.
Wayne Amco 16% Dairy Ration	G. 16.00 F. 17.86	3.50 4.20	59.00 62.36	.... 7.06	.... 8.52	9.00 8.48	Corn distillers' dried grains, cottonseed meal, brewers' dried grains, corn gluten feed, old process linseed oil meal, corn meal, hominy meal, soybean oil meal, ground oats, crimped oats, wheat bran, cane molasses, 0.5% steamed bone meal, 1.0% ground limestone, 1.0% salt, 0.03% iron oxide, 0.0005% potassium iodide.
Wayne Amco 20% Dairy Ration	G. 20.00 F. 20.88	4.00 4.17	54.00 59.29	.... 6.82	.... 8.84	9.00 8.75	Cottonseed meal, brewers' dried grains, corn distillers' dried grains, ground oats, corn gluten feed, corn meal and hominy meal, soybean oil meal, corn gluten meal, old process linseed oil meal, wheat bran, cane molasses, 0.5% steamed bone meal, 1.5% ground limestone, 1.0% salt, 0.03% iron oxide, 0.0005% potassium iodide.

Wayne Amco 24% Dairy Ration ...	G. 24.00 F. 26.40	4.00 4.47	49.00 52.66	.... 8.06	.... 8.41	9.00 8.13	Corn gluten meal, corn distillers' dried grains, brewers' dried grains, corn gluten feed, old process linseed oil meal, soybean oil meal, cottonseed meal, ground oats, corn meal and hominy meal, wheat bran, cane molasses, 0.5% steamed bone meal, 1.5% ground limestone, 1.0% salt, 0.03% iron oxide, 0.0005% potassium iodide.
Wayne Calf Meal	G. 24.00 F. 25.22	4.00 4.45	52.00 52.50	.... 8.57	.... 9.26	7.00 7.13	Dried skim milk, cottonseed oil meal, corn gluten meal, cocoanut oil meal, wheat standard middlings, wheat bran, wheat red dog, soybean oil meal, 1% steamed bone meal, 2% ground limestone, 1% salt, 0.06% iron oxide, 0.0007% potassium iodide, cane molasses, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram.
Wayne Chick and Broiler Ration ...	G. 18.00 F. 18.21	3.50 4.74	53.00 60.70	.... 7.28	.... 9.07	8.00 6.07	Dried skim milk, animal liver meal, meat scraps, fish meal, ground yellow corn, corn gluten meal, fine ground oats, wheat standard middlings, wheat bran, soybean oil meal, dehydrated alfalfa meal, 1.5% ground limestone, 0.04% iron oxide, 0.0005% potassium iodide, 0.25% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.04% manganese sulphate equivalent to 98 p. p. m. of manganese. Found 209 p. p. m. Mn.
Wayne Chick Starter	G. 17.00 F. 18.60	4.00 4.62	55.00 60.50	.... 6.55	.... 9.73	7.00 5.33	Dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, corn gluten meal, fine ground oats, dehydrated alfalfa meal, soybean oil meal, wheat bran, 1.5% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 149 p. p. m. Mn.

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Wayne Complete Calf Feed	G. 16.00 F. 16.99	3.30 3.93	57.00 60.70	.... 9.30	.... 9.08	9.00 7.96	Soybean oil meal, cottonseed meal, old process linseed oil meal, cocoanut oil meal, corn gluten meal, wheat red dog, corn meal, corn distillers' dried grains, brewers' dried grains, wheat bran, dried skimmed milk, wheat standard middlings, dehydrated alfalfa meal, crimped oats, ground oats, cane molasses, beet molasses, 1.6% ground limestone, 1% salt, 0.3% steamed bone meal, 0.02% iron oxide, 0.0004% potassium iodide, fortified sardine oil containing 400 vitamin D chick units and 3000 vitamin A units per gram.
Wayne Egg and Breeder Mash	G. 20.00 F. 21.10	3.50 5.05	53.00 56.94	.... 7.00	.... 9.91	8.00 6.26	Dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn meal, corn gluten feed, corn gluten meal, dehydrated alfalfa meal, soybean oil meal, fine ground oats, 2% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.06% manganese sulphate equivalent to 147 p. p. m. of manganese. Found 172 p. p. m. Mn.
Wayne Fitting Ration	G. 12.00 F. 15.76	3.50 3.94	59.00 63.17	.... 6.96	.... 10.17	9.00 7.24	Corn distillers' dried grains, corn meal, hominy meal, soybean oil meal, crimped oats, ground oats, old process linseed oil meal, wheat bran, brewers' dried grains, cane molasses, 0.5% steamed bone meal, 1.2% ground limestone, 1.2% salt, 0.03% iron oxide, 0.0005% potassium iodide.

Wayne Growing Mash	G. 16.00 F. 16.55	3.50 4.58	55.00 62.95	.... 6.21	.... 9.71	7.00 5.81	Dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, corn meal, corn gluten meal, fine ground oats, dehydrated alfalfa meal, soybean oil meal, wheat bran, 1.5% ground limestone, 0.06% iron oxide, 0.0007% potassium iodide, 0.25% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.06% manganese sulphate equivalent to 147 p.p.m. of manganese. Found 187 p.p.m. Mn.
Wayne Laying Mash	G. 18.00 F. 19.13	3.50 4.70	53.00 58.79	.... 8.09	.... 9.29	8.00 7.39	Fish meal, dried skimmed milk, dehydrated alfalfa meal, soybean oil meal, meat scraps, corn gluten meal, wheat standard middlings, corn gluten feed, fine ground oats, wheat bran, yellow corn meal, 2.7% ground limestone, 0.04% iron oxide, 0.2% iodized salt, fortified sardine oil, 0.04% manganese sulphate equivalent to 98 p.p.m. of manganese. Found 194 p.p.m. Mn.
Wayne Mash Concentrate	G. 36.00 F. 38.61	3.50 5.02	33.00 32.28	.... 16.84	.... 7.25	8.00 6.55	Dried skim milk, animal liver meal, fish meal, meat scraps, soybean oil meal, corn gluten meal, corn gluten feed, dehydrated alfalfa meal, 4% ground limestone, 0.15% iron oxide, 0.002% potassium iodide, 0.5% salt, fortified sardine oil containing 3000 vitamin A units and 400 vitamin D chick units per gram, 0.15% manganese sulphate equivalent to 369 p.p.m. of manganese. Found 176 p.p.m. Mn.
Wayne 26% Mash Supplement with Sardine Oil	G. 26.00 F. 27.58	3.50 5.62	43.00 43.99	.... 15.08	.... 7.73	10.00 9.33	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn gluten meal, corn gluten feed, dehydrated alfalfa meal, soybean oil meal, 3% ground limestone, 0.15% iron oxide, 0.002% potassium iodide, 0.5% salt, sardine oil, 0.15% manganese sulphate equivalent to 369 p.p.m. of manganese. Found 400 p.p.m. Mn.

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Wayne Pork Maker	G. 14.00 F. 15.06	3.50 3.93	57.00 64.28	.... 6.05	.... 10.68	7.00 5.37	Digester tankage, fish meal, soybean oil meal, fine ground oats, corn meal, wheat standard middlings, fine ground alfalfa meal, cane molasses, 1% ground limestone, 0.5% steamed bone meal, 0.02 iron oxide, 0.0005% potassium iodide, 0.0005% copper sulphate, 1% salt.
Wayne Poultry Fattener	G. 13.50 F. 14.71	3.50 4.04	63.00 64.44	.... 7.55	.... 9.26	8.00 6.69	Ground yellow corn, corn germ oil meal, white hominy feed, rolled oats, fine ground oats, wheat standard middlings, wheat red dog, old process linseed oil meal, 1% salt, 4% ground limestone.
Archer-Daniels-Midland Co. Minneapolis, Minn.							
Linseed Meal, Old Process	G. 37.00 F. 38.83	4.50 4.74	41.00 41.48	.... 5.52	.... 9.43	9.00 7.13	Ground linseed cake.
Midland 30% Protein Linseed Feed	G. 30.00 F. 35.90	4.50 4.82	47.00 44.32	.... 5.83	.... 9.13	10.00 8.33	Linseed meal, flaxseed, screenings, oil feed.
Old Process Linseed Cake	G. 37.00 F. 38.00	4.50 4.60	41.00 42.82	.... 5.57	.... 9.01	9.00 7.16	
Ashcroft-Wilkinson Co. Atlanta, Ga.							
Cow-Eta Brand 41% Protein Cottonseed Meal	G. 41.00 F. 41.94	5.00 5.97	38.00 38.99	.... 5.59	.... 7.51	13.00 11.41	

E. W. Bailey & Co. Montpelier, Vt.							
Bailey's B-20	G. 20.00	4.75	58.00	....	....	11.00	Corn gluten feed, wheat standard middlings, soybean oil meal, cottonseed meal, wheat bran, white hominy feed, yellow corn meal, dried brewers' grains. oat meal mill by-products, oat middlings, oat hulls, oat shorts, cane molasses, edible steamed bone meal, calcium carbonate, salt.
	F. 21.02	4.39	58.67	7.89	8.03	12.26	
Bailey's 20 Special	G. 20.00	3.50	55.00	....	....	9.00	Gluten feed, soybean meal, cottonseed meal, standard wheat middlings, wheat bran, corn meal, oat meal mill by-products, (oat middlings, oat hulls, oat shorts), molasses, salt, edible bone meal, calcium carbonate.
	F. 21.71	3.33	57.81	8.29	8.86	8.38	
Bailey's Capital Wheat Mixed Feed	G. 14.00	3.00	60.00	....	....	7.00	Wheat bran, wheat red dog flour.
	F. 18.25	4.96	62.04	4.16	10.59	6.58	
Bailey's 16% Dairy Ration	G. 16.00	4.00	60.00	....	....	9.00	Corn gluten feed, yellow corn meal, white hominy feed, ground oats, wheat bran, linseed oil meal, cottonseed meal, soybean oil meal, salt, calcium carbonate, bone meal, cane molasses.
	F. 17.73	3.92	60.44	6.89	11.02	5.86	
Bailey's Favorite Dairy Ration	G. 20.00	4.00	55.00	....	....	7.50	White hominy feed, cottonseed meal, linseed oil meal, corn meal, ground oats, wheat bran, soybean meal, corn gluten feed, standard wheat middlings, edible bone meal, calcium carbonate, fine salt, molasses.
	F. 20.66	3.66	57.48	8.33	9.87	6.53	
Bailey's Fitting Ration	G. 14.00	4.00	62.00	....	....	9.00	White hominy feed, wheat bran, linseed oil meal, soybean oil meal, ground oats, salt, edible steamed bone meal, calcium carbonate, cane molasses, fortified cod liver oil.
	F. 15.28	3.40	63.62	6.25	11.45	6.45	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Bailey's Pennant Brand Breeder Mash.	G. 20.00 F. 21.19	4.00 4.14	50.00 55.72	.... 8.34	.... 10.61	6.50 5.48	Dried skim milk, dried milk albumen, ground oats, ground barley, meat scraps, fish meal, blood flour, soybean oil meal, wheat red dog flour, wheat standard middlings, wheat bran, yellow corn meal, dehydrated alfalfa meal, locust bean meal, rice polishings, salt, calcium carbonate, bone meal, potassium iodide, manganese sulphate, fortified cod liver oil, wheat germ oil.
Bailey's Pennant Brand Chick Starter.	G. 17.00 F. 18.47	4.50 4.14	55.00 57.06	.... 9.14	.... 11.19	6.00 6.07	Dried skim milk, dried milk albumen, fine ground oats, fine ground barley, meat scraps, fish meal, blood flour, soybean oil meal, wheat red dog flour, wheat standard middlings, wheat bran, yellow corn meal, dehydrated alfalfa meal, locust bean meal, rice polishings, salt, calcium carbonate, bone meal, charcoal, potassium iodide, manganese sulphate, fortified cod liver oil, wheat germ oil.
Bailey's Pennant Brand Complete Grower	G. 14.00 F. 15.72	4.00 4.25	55.00 62.89	.... 5.68	.... 11.46	6.50 6.01	Dried skim milk, fine ground oats, fine ground barley, meat scraps, fish meal, soybean oil meal, wheat standard middlings, wheat bran, yellow corn meal, dehydrated alfalfa meal, salt, calcium carbonate, bone meal, charcoal, manganese sulphate, fortified cod liver oil.
Bailey's Pennant Brand Complete Layer	G. 15.50 F. 17.12	4.00 3.87	55.00 59.93	.... 7.23	.... 11.85	7.00 5.57	Dried skim milk, ground oats, ground barley, meat scraps, fish meal, soybean oil meal, wheat standard middlings, wheat bran, ground wheat, yellow corn meal, dehydrated alfalfa meal, salt, calcium carbonate, bone meal, charcoal, manganese sulphate, fortified cod liver oil.

Bailey's Pennant Brand Growing Feed.	G. 15.00 F. 16.02	4.50 4.50	50.00 61.07	.... 8.62	.... 9.79	6.00 6.32	Dried skim milk, dried albumen of milk, feeding oatmeal, pulverized oats, meat scraps, fish meal, blood flour, soybean oil meal, wheat red dog flour, wheat standard middlings, wheat bran, yellow corn meal, alfalfa meal, honey locust bean meal, crushed flaxseed, rice polish, salt, calcium carbonate, bone meal, charcoal, potassium iodide, manganese sulphate, fortified cod liver oil, wheat germ oil.
Bailey's Pennant Brand Horse Feed..	G. 10.75 F. 12.73	3.50 3.88	65.00 69.01	.... 3.63	.... 10.75	6.50 6.03	Cracked corn, crimped oats, wheat bran, linseed oil meal, molasses, 1% salt.
Bailey's Pennant Brand Laying Mash.	G. 20.00 F. 20.44	4.50 4.60	50.00 53.63	.... 12.06	.... 9.27	7.00 6.93	Dried skim milk, dried albumen of milk, feeding oat meal, pulverized oats, meat scraps, fish meal, blood flour, soybean oil meal, wheat red dog flour, wheat standard middlings, wheat bran, yellow corn meal, corn gluten feed, alfalfa meal, honey locust bean meal, crushed flaxseed, rice polish, salt, calcium carbonate, edible bone meal, charcoal, potassium iodide, manganese sulphate, fortified cod liver oil, wheat germ oil.
Capital Dairy Ration	G. 24.00 F. 24.69	4.50 4.09	55.00 51.93	.... 10.09	.... 9.20	9.00 7.64	Corn gluten feed, linseed oil meal, hominy feed, 43% cottonseed meal, ground oats, wheat bran, corn meal, soybean meal, edible bone meal, calcium carbonate, fine salt, molasses.
Pennant Brand Stock Feed Sweetened.	G. 9.50 F. 10.11	4.00 4.74	70.00 69.56	.... 6.79	.... 8.80	9.50 9.83	Fine white hominy, oat meal mill by-product (oat middlings, oat hulls, oat shorts), ground oats, linseed oil meal, ground barley, ½% salt, cane molasses, calcium carbonate, bone meal.

Manufacturer / Brand		Pounds in 100 lbs. of Feeding Stuffs: Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
G. N. Bartemus Co. .. Concord, N. H.								
Barco All Purpose Mash	G.	18.00	4.00	51.00	....	....	6.80	Corn meal, corn gluten feed, wheat bran, standard wheat middlings, ground oats, dehydrated alfalfa leaf meal, soybean meal, dried skimmed milk, meat scraps, fish meal, ground limestone, salt, concentrated cod liver oil, manganese sulphate.
	F.	**16.33**	4.09	60.62	6.84	11.62	5.69	
Barco Breeder Mash	G.	20.00	4.00	52.00	....	....	6.00	Corn meal, wheat bran, wheat red dog, ground oats, dehydrated alfalfa leaf meal, soybean meal, dried skimmed milk, meat scraps, ground limestone, salt, manganese sulphate, Nopco XX oil.
	F.	21.19	4.42	55.37	8.81	10.21	6.04	
Barco Broiler Mash	G.	18.00	4.00	50.00	....	....	5.00	Corn meal, wheat standard middlings, wheat red dog flour, wheat bran, ground oats, dried skimmed milk, dried albumen of milk, 50% meat scraps, fish meal, dehydrated alfalfa leaf meal, Nopco XX oil, salt, calcium carbonate, bone meal, blood flour, soybean oil meal, honey locust bean meal, crushed flaxseed, rice polish, potassium iodide, manganese sulphate, wheat germ oil.
	F.	20.14	4.36	54.86	9.79	10.85	4.98	
Barco Dry Cow and Freshening Ration	G.	15.00	4.00	53.00	....	....	10.00	Wheat bran, soybean oil meal, corn gluten meal, crimped oats, dried beet pulp, coarse ground corn meal, alfalfa meal, wheat brown middlings, molasses, ground limestone, salt, cod liver oil.
	F.	15.80	4.00	64.33	5.40	10.47	10.31	

Hillsboro 20% Dairy Ration Sweetened	G.	20.00	4.50	55.00	....	....	8.50	Corn meal, distillers' corn dried grains, wheat bran, ground oats, 41% cottonseed meal corn gluten feed, linseed meal, lime, salt, bone meal, molasses.
	F.	19.53	4.22	59.12	7.11	10.02	6.69	
Maine Mash	G.	17.00	4.00	49.00	....	....	5.00	Corn meal, wheat bran, wheat red dog, ground oats, fish meal, alfalfa leaf meal, oyster shell meal.
	F.	20.14	4.32	56.77	7.89	10.88	4.96	
Beacon Milling Co. Cayuga, N. Y.								
Auburn Dairy Feed	G.	20.00	3.75	50.00	....	....	10.00	Corn gluten feed, old process linseed oil meal, soybean oil meal, ground oats, corn meal, ground grain screenings, cottonseed meal, wheat bran, ground barley, corn distillers' dried grains, molasses, 1% salt, 1% steamed bone meal.
	F.	21.84	4.79	56.99	7.24	9.14	7.19	
Beacon Breeders' Mash with Buttermilk	G.	20.00	4.00	50.00	....	....	7.50	Dried skim milk, dried buttermilk, liver meal, meat scrap, fish meal, dehydrated alfalfa leaf meal, corn meal, pulverized heavy oats, pulverized heavy barley, wheat bran, wheat flour middlings, wheat germ meal, fortified cod liver oil, ½% fine salt, 3% calcium carbonate, 1% protozyme, anhydrous manganese sulphate 70 p. p. m. equivalent to 25 p. p. m. of manganese. Found 120 p. p. m. Mn.
	F.	20.62	6.03	53.03	11.86	8.46	6.43	
Beacon Broiler Feed	G.	18.50	4.00	50.00	....	....	7.00	Dried skim milk, liver meal, meat scrap, fish meal, ground yellow corn, pulverized heavy oats, wheat bran, wheat red dog, wheat germ meal, soybean oil meal, corn gluten meal, dehyrated alfalfa leaf meal, fortified cod liver oil, 2½% calcium carbonate, ½% salt, anhydrous manganese sulphate 35 p. p. m. equivalent to 12 p. p. m. of manganese. Found 135 p. p. m. Mn.
	F.	20.00	5.04	57.09	8.47	9.40	4.76	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Beacon Calf Grain	G. 14.00 F. 15.15	4.00 4.47	50.00 63.66	.... 6.09	.... 10.63	10.00 7.81	Old process linseed oil meal, wheat bran, corn meal, crushed oats, molasses, fortified cod liver oil, 1% salt, 1% calcium carbonate, ½% steamed bone meal.
Beacon Complete Starting Ration	G. 17.50 F. 18.56	4.00 5.58	50.00 58.79	.... 8.70	.... 8.37	6.00 5.10	Dried skim milk, liver meal, meat scrap, fish meal, ground yellow corn, ground hulled oats, pulverized heavy oats, pulverized heavy barley, wheat bran, wheat flour middlings, dehydrated alfalfa leaf meal, wheat germ meal, fortified cod liver oil, 2% calcium carbonate, ½% salt, anhydrous manganese sulphate 35 p. p. m. equivalent to 12 p. p. m. of manganese. Found 108 p. p. m. Mn.
Beacon 22 Egg Mash With Buttermilk.	G. 22.00 F. 22.68	4.50 6.07	48.00 51.27	.... 11.96	.... 8.02	7.50 6.13	Dried buttermilk, dried skim milk, liver meal, meat scrap, fish meal, pulverized heavy barley, pulverized heavy oats, corn meal, dehydrated alfalfa leaf meal, wheat bran, wheat flour middlings, wheat germ meal, fortified cod liver oil, 3% calcium carbonate, ½% fine salt, 1% protozyme, anhydrous manganese sulphate 70 p. p. m equivalent to 25 p. p. m. of manganese. Found 116 p. p. m. Mn.
Beacon 16 Growing Mash	G. 16.00 F. 16.94	4.00 5.35	50.00 59.15	.... 9.75	.... 8.81	7.50 7.02	Dried skim milk, liver meal, meat scrap, fish meal, pulverized heavy oats, pulverized heavy barley, corn meal, dehydrated alfalfa leaf meal, wheat bran, wheat flour middlings, wheat germ meal, fortified cod liver oil, 2% calcium carbonate, ½% salt, anhydrous manganese sulphate 70 p. p. m. equivalent to 25 p. p. m. of manganese. Found 105 p. p. m. Mn.

Beacon 18 Growing Mash	G. 18.00 F. 18.95	4.00 5.79	50.00 56.14	.... 10.36	.... 8.76	7.50 6.17	Dried skim milk, liver meal, meat scrap, fish meal, pulverized heavy oats, pulverized heavy barley, corn meal, wheat red dog, dehydrated alfalfa leaf meal, wheat bran, wheat flour middlings, wheat germ meal, fortified cod liver oil, 2% calcium carbonate, ½% salt, anhydrous manganese sulphate 70 p. p. m. equivalent to 25 p. p. m. of manganese. Found 103 p. p. m. Mn.
Beacon 20 Laying Mash	G. 20.00 F. 21.54	4.00 6.32	50.00 52.04	.... 10.72	.... 9.38	7.50 6.73	Dried buttermilk, dried skim milk, liver meal, fish meal, meat scrap, corn meal, dehydrated alfalfa leaf meal, wheat bran, wheat flour middlings, pulverized heavy barley, pulverized heavy oats, wheat germ meal, fortified cod liver oil, 3% calcium carbonate, ½% salt, anhydrous manganese sulphate 70 p. p. m. equivalent to 25 p. p. m. of manganese. Found 111 p. p. m. Mn.
Beacon Sweet 20	G. 20.00 F. 21.41	4.00 4.01	50.00 58.85	.... 5.94	.... 9.79	9.00 6.39	Old process linseed oil meal, soybean oil meal, corn distillers' dried grains, cottonseed meal, wheat bran, wheat middlings, corn gluten meal, corn gluten feed, ground barley, corn meal, ground oats, molasses, 1% salt, 1% steamed bone meal.
Beacon Sweet 24	G. 24.00 F. 25.44	4.00 4.09	50.00 53.94	.... 7.55	.... 8.98	9.00 7.23	Old process linseed oil meal, soybean oil meal, corn gluten meal, cottonseed meal, corn gluten feed, corn distillers' dried grains, wheat bran, wheat middlings, ground oats, ground barley, molasses, 1% salt, 1% calcium carbonate, 1% steamed bone meal.

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Beacon Test Cow Ration	G. 18.00 F. 19.61	4.75 4.75	55.00 59.05	.... 6.41	.... 10.18	9.00 7.09	Old process linseed oil meal, cottonseed meal, corn distillers' dried grains, soybean oil meal, corn gluten feed, corn meal, wheat bran, crushed oats, crushed barley, molasses, 1% salt, 1% steamed bone meal.
Beacon Turkey Fitting Ration	G. 10.00 F. 10.42	3.00 3.45	60.00 72.28	.... 2.86	.... 10.99	9.00 4.84	Old process linseed oil meal, soybean oil meal, corn gluten meal, alfalfa meal, crushed barley, cracked corn, crimped oats, molasses, 1% salt.
Beacon Turkey Growing Feed	G. 20.00 F. 21.01	4.00 5.11	55.00 55.66	.... 9.68	.... 8.54	7.00 6.29	Dried skim milk, liver meal, dehydrated alfalfa leaf meal, meat scrap, fish meal, wheat bran, wheat flour middlings, wheat red dog, corn gluten meal, soybean oil meal, pulverized heavy oats, pulverized heavy barley, corn meal, wheat germ meal, fortified cod liver oil, 4% calcium carbonate, ½% salt, 1% protozyme, anhydrous manganese sulphate 70 p. p. m. equivalent to 25 p. p. m. of manganese. Found 125 p. p. m. Mn.
L. Clayton Berry Lebanon, N. H.							
Berry's Special Dairy Ration	G. 20.00 F. 22.55	4.00 4.22	50.00 57.64	.... 6.42	.... 9.17	12.00 10.18	Corn meal or hominy feed, gluten feed, 41% C.S. meal, wheat bran, brewers' grains, corn distillers' grains, ground oats, linseed oil meal, soybean meal, calcium carbonate, fine salt, molasses.
Bisbee Linseed Co. Amsterdam, N. Y.							
K & M Brand 34% Linseed Meal Old Process	G. 34.00 F. 36.91	5.00 5.63	40.00 41.64	.... 5.86	.... 9.96	10.00 7.46	Commercial flaxseed.

Borden Company **New York, N. Y.**								
Flaydry, Lactoflavin Supplement	G.	22.00	0.50	48.75	....	....	3.75	Whey, skim milk, soybean oil meal, lactoflavin concentrate.
	F.	32.79	3.83	38.85	17.79	6.74	3.72	
Buckeye Cotton Oil Co. **Cincinnati, Ohio**								
Buckeye 41% Cottonseed Meal	G.	41.00	5.00	38.00	....	....	13.00	
	F.	41.11	5.78	39.89	6.81	6.41	11.96	
Central Soya Co. **Decatur, Ind.**								
Central Soybean Oil Meal	G.	41.00	4.50	35.00	....	....	7.00	
	F.	45.53	6.14	34.45	5.66	8.22	5.79	
David C. Chase **Smithtown, N. H.**								
Chase Growing Mash	G.	14.00	4.50	45.00	....	....	10.00	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, bone meal, charcoal, salt, dried milk, fish oil.
	F.	17.25	5.79	57.94	10.42	8.60	7.64	
Chase Laying Mash	G.	18.00	4.50	45.00	....	....	10.00	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, corn gluten feed, dried milk, charcoal, salt, fish oil.
	F.	20.88	4.50	55.33	10.60	8.69	5.51	
Checkerboard Elevator Co. **St. Louis, Mo.**								
Wheat Bran	G.	14.50	4.00	58.00	....	....	11.00	Wheat bran, ground wheat screenings not exceeding mill run.
	F.	17.64	4.15	61.85	6.45	9.91	9.04	
Checkerboard Feed Stores **St. Johnsbury, Vt.**								
Creamery Ration	G.	20.00	3.50	....	....	....	10.00	Wheat bran, wheat middlings, hominy or corn feed meal, rye feed, gluten feed, cottonseed meal, brewers' grains, ground oats, linseed meal, soybean oil meal, molasses, 2% calcium carbonate (limestone), 1% salt.
	F.	22.24	4.46	57.21	7.25	8.84	8.16	
S. J. Cherry & Sons **Preston, Canada**								
Bran	G.	14.00	3.50	51.00	....	....	11.50	
	F.	16.29	4.99	62.45	5.54	10.73	10.49	
Middlings	G.	16.50	3.50	59.50	....	....	4.50	
	F.	14.59	3.74	68.07	2.25	11.35	2.54	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Shorts	G. 15.00	5.00	52.00	....	....	8.00	
	F. 16.11	4.96	63.64	4.53	10.76	7.51	
Clinton Company, Clinton, Iowa							
Clinton Corn Gluten Feed Sweetened..	G 20.00	1.00	50.00	....	....	7.00	Corn gluten feed, cane molasses.
	F. 24.52	1.40	59.93	6.68	7.47	7.00	
Herbert K. Clofine, Philadelphia, Pa.							
Supreme Brand Dried Skim Milk ...	G. 32.00	0.25	.....	....	....	....	Made from fluid skim milk.
	F. 35.07	0.64	51.52	8.04	4.73	....	
Coatsworth & Cooper, Toronto, Canada							
C and C Wheat Bran	G. 15.00	3.50	51.00	....	....	11.50	
	F. 16.11	4.07	65.26	3.68	10.88	6.13	
C and C Wheat Shorts	G. 16.00	5.00	52.00	....	....	8.00	
	F. 16.46	4.60	65.47	3.74	9.73	6.90	
Commander Larabee Milling Co. Minneapolis, Minn.							
Sunfed Wheat Bran	G. 14.00	4.00	62.00	....	....	12.00	With ground screenings not exceeding mill run.
	F. 16.15	4.86	62.04	6.63	10.32	10.69	
Consolidated Rendering Co. Boston, Mass.							
Corenco 45% Meat and Bone Scrap	G. 45.00	6.00	....	....	....	...	
	F. 46.67	8.12	....	38.59	6.09	....	
Corenco 50% Meat and Bone Scrap.	G. 50.00	6.00	....	....	....	...	Cooked meat and bone.
	F. 53.37	9.24	....	28.13	6.93	....	

Consumers Milling Co. Outlook, Saskatchewan, Canada							
Shorts	G. 16.00	5.00	....	....	....	8.00	
	F. 15.33	4.45	66.68	3.55	9.99	5.59	
Copeland Flour Mills Midland, Canada							
Dandy Wheat Bran	G. 17.00	3.50	51.00	....	....	11.50	
	F. 17.29	4.61	61.36	5.27	11.47	9.76	
Dandy Wheat Shorts	G. 18.00	5.00	54.00	....	....	8.00	
	F. 19.30	5.10	60.53	3.93	11.14	5.47	
Corn Products Refining Co. New York, N. Y.							
Buffalo Corn Gluten Feed	G. 25.00	2.00	50.00	....	....	8.50	Corn gluten feed.
	F. 25.05	2.04	58.55	6.96	7.40	7.64	
Buffalo Corn Gluten Feed Sweetened.	G. 18.00	1.50	59.50	....	....	8.50	Corn gluten feed, feeding corn, sugar molasses.
	F. 20.05	1.50	63.51	5.97	8.97	7.89	
Diamond Corn Gluten Meal	G. 41.00	1.00	42.00	....	....	4.00	Corn gluten meal.
	F. 44.04	2.32	43.98	1.97	7.69	2.96	
Cunningham Grain Co. Malden, Mass.							
Cassidy Special Mash	G. 15.00	4.00	56.00	....	....	6.00	Yellow corn meal, wheat bran, wheat red dog, ground oats, 50% beef scraps, red fish meal, alfalfa leaf meal, dried skimmed milk, calcium carbonate, salt, charcoal, fortified cod liver oil.
	F. 17.56	4.69	58.74	8.53	10.48	5.89	
G. B. Currier Co. Colebrook, N. H.							
Champion Dairy Ration	G. 24.00	4.75	50.00	....	....	8.50	Bran, choice cottonseed meal, buffalo gluten feed, diamond gluten meal, linseed oil meal, fancy ground oats, corn meal or hominy, brewers' dried grains, distillers' grains, middlings, ¾% salt, bone meal.
	F. 24.34	5.11	54.15	6.81	9.59	8.50	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Dairymen's League Cooperative Association Utica, N. Y.							
Dairylea Dried Skim Milk	G. 33.00 F. 35.55	0.50 0.69	.... 50.58	.... 8.40	.... 4.78	....	
Delaware Mills Deposit, N. Y.							
Delaware All Mash Chick Starter	G. 17.00 F. 17.95	4.00 4.74	60.00 57.58	.... 9.07	.... 10.66	6.00 4.79	Cod liver oil, dried skim milk, meat scrap, fish meal, wheat red dog, dehydrated alfalfa leaf meal, corn meal, wheat bran, wheat middlings, oat meal, bone meal, calcium carbonate, charcoal, salt, potassium iodide, manganese.
Delaware Breeder Mash	G. 20.00 F. 20.14	4.00 5.07	50.00 66.47	.... 8.95	.... 9.37	7.50 6.11	Cod liver oil, wheat germ oil, dried skim milk, dried whey, dehydrated alfalfa leaf meal, meat scrap, fish meal, soybean oil meal, corn meal, wheat bran, wheat middlings, wheat red dog, oat meal, pulverized heavy oats, ground barley, calcium carbonate, ½% salt, potassium iodide, manganese.
Delaware Complete Egg Mash	G. 15.00 F. 15.72	4.00 4.72	60.00 63.66	.... 5.79	.... 10.11	7.00 6.06	Cod liver oil, dried skim milk, dried whey, meat scrap, fish meal, dehydrated alfalfa meal, soybean oil meal, corn gluten feed, wheat bran, wheat middlings, corn meal, ground oats, ground barley, ground wheat, calcium carbonate, salt, potassium iodide, manganese.

Delaware Fitting Ration	G. 13.00 F. 14.54	4.00 5.09	60.00 63.35	.... 6.43	.... 10.59	10.00 6.92	Molasses, wheat bran, wheat middlings, corn meal, ground oats, linseed oil meal, soybean oil meal, peanut oil meal, calcium carbonate, salt, potassium iodide.
Delaware Growing Mash	G. 17.00 F. 18.08	4.00 4.82	55.00 59.16	.... 8.41	.... 9.53	6.50 6.19	Cod liver oil, dried skim milk, dehydrated alfalfa leaf meal, meat scrap, fish meal, bone meal, soybean oil meal, corn gluten feed, pulverized heavy oats, corn meal, wheat bran, wheat middlings, wheat flour middlings, oat meal, calcium carbonate, ½% salt, potassium iodide, manganese.
Delaware Laying Mash	G. 20.00 F. **18.77**	4.00 4.59	50.00 58.44	.... 7.76	.... 10.44	7.00 5.88	Cod liver oil, dried skim milk, meat scrap, bone meal, fish meal, soybean oil meal, corn gluten feed, corn meal, wheat bran, wheat middlings, wheat red dog, pulverized heavy oats, oat meal, ground barley, dehydrated alfalfa leaf meal, calcium carbonate, ½% salt, potassium iodide, manganese.
Delaware Milk Flushing Mash	G. 17.00 F. **15.29**	3.50 3.50	60.00 67.28	.... 5.59	.... 8.34	6.00 3.89	Cod liver oil, dried skim milk, corn meal, fine ground oats, wheat bran, ½% salt.
Delaware Poultry Fattener	G. 12.00 F. 14.89	4.50 5.05	55.00 66.14	.... 4.42	.... 9.50	6.00 5.59	Dried skim milk, corn meal, corn oil meal, hominy feed, ground oats, oat meal, wheat red dog, wheat middlings, soybean oil meal, phosphatic calcium carbonate, salt, cod liver oil.
Delaware Pulpolass Feed	G. 10.00 F. 12.73	2.00 3.10	67.00 67.06	.... 6.62	.... 10.49	16.00 11.72	Cane molasses, brewers' dried grains, wheat bran, dried beet pulp, alfalfa meal, corn meal, calcium carbonate, salt.

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Delaware Starter and Broiler Ration..	G.	18.00	4.50	55.00	....	....	6.00	Cod liver oil, dried skim milk, meat scrap, fish meal, bone meal, dehydrated alfalfa leaf meal, corn meal, wheat bran, wheat middlings, wheat red dog, oat meal, soybean oil meal, corn gluten feed, calcium carbonate, salt, potassium iodide, manganese.
	F.	17.60	4.67	60.37	6.69	10.67	5.55	
Delaware Starter, Grower, Layer	G.	16.00	4.00	60.00	....	....	6.00	Cod liver oil, dried skim milk, meat scrap, fish meal, bone meal, corn meal, wheat bran, wheat middlings, wheat red dog, dehydrated alfalfa leaf meal, pulverized heavy oats, soybean oil meal, calcium carbonate, salt, potassium iodide, manganese.
	F.	15.91	5.01	61.98	7.06	10.04	6.45	
Delaware Sweet 20% Dairy Feed ...	G.	20.00	4.50	50.00	....	....	10.00	Cane molasses, linseed oil meal, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, corn distillers' grains, peanut oil meal, wheat bran, wheat middlings, hominy feed, ground oats, ground barley, phosphatic calcium carbonate, salt.
	F.	21.71	4.28	56.66	7.24	10.11	7.32	
Delaware Sweet 24% Dairy Feed ...	G.	24.00	4.50	50.00	....	....	9.00	Cane molasses, corn gluten feed, corn gluten meal, linseed oil meal, cottonseed meal, soybean oil meal, corn distillers' grains, hominy feed, peanut oil meal, corn meal, wheat bran, wheat middlings, calcium carbonate, salt, potassium iodide.
	F.	25.30	4.96	52.51	8.15	9.08	7.08	
Delaware White Stock Feed	G.	9.00	3.00	65.00	....	....	12.00	Corn meal, hominy feed, wheat middlings, ground barley, oat middlings, oat hulls, oat shorts, salt, calcium phosphate, calcium carbonate.
	F.	9.54	3.70	72.29	5.78	8.69	11.90	

Delco Laying Mash	G. 17.00 F. 17.21	4.00 4.56	50.00 60.53	.... 6.67	.... 11.03	9.00 6.16	Cod liver oil, dried skim milk, meat scrap, bone meal, soybean oil meal, corn gluten meal, corn gluten feed, wheat bran, wheat middlings, corn meal or hominy feed, fine ground oats, alfalfa meal, calcium carbonate, salt, potassium iodide, manganese.
Indian Sweet 20% Dairy Feed	G. 20.00 F. 20.53	3.50 3.51	50.00 57.38	.... 9.16	.... 9.42	12.00 10.46	Cane molasses, linseed oil meal, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat middlings, corn meal, reground oat feed, corn distillers' grains, calcium carbonate, salt, potassium iodide.
Indian Sweet 24% Dairy Feed	G. 24.00 F. 24.38	3.50 4.44	50.00 53.24	.... 8.25	.... 9.69	12.00 8.55	Cane molasses, corn gluten feed, linseed oil meal, cottonseed meal, soybean oil meal, peanut oil meal, corn meal, wheat bran, wheat middlings, corn distillers' grains, reground oat feed, calcium carbonate, salt, potassium iodide.
Rollins Special Dairy Feed	G. 20.00 F. 21.89	4.00 4.45	45.00 57.16	.... 6.65	.... 9.85	9.00 8.11	500 lbs. gluten feed, 100 lbs. wheat bran, 200 lbs. 41% C. S. meal, 300 lbs. wheat middlings, 340 lbs. hominy, 200 lbs. brewers' grains, 100 lbs. linseed oil meal, 200 lbs. molasses, 20 lbs. limestone, 20 lbs. bone meal, 20 lbs. salt.
Dietrich & Gambrill Frederick, Md.							
All Purpose Complete Ration, Starter-Grower-Layer	G. 15.00 F. 17.69	4.00 4.69	56.00 59.31	.... 8.26	.... 10.05	7.00 5.30	Coarse ground yellow corn, coarse ground wheat, pulverized oats, flour middlings, wheat bran, alfalfa leaf meal, dried buttermilk, meat scrap, fish meal, soybean meal, steamed bone meal, 1% calcium carbonate, 1% salt, cod liver oil, potassium iodide, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 73 p. p. m. Mn.

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	
Big 4 Feed	G. 12.00 F. 14.06	2.50 2.73	62.00 65.47	.... 8.87	.... 8.87	16.00 **17.15**	Alfalfa meal, wheat bran, dried brewers' grains, beet pulp, molasses, 1% salt, 1% bone meal, 1% calcium carbonate, potassium iodide.
Gambrill's A-1 Dairy Feed	G. 24.00 F. 25.39	4.60 5.07	51.00 53.68	.... 7.68	.... 8.18	9.00 8.43	Gluten feed, cottonseed meal, linseed meal, peanut meal, dried brewers' grains, wheat bran, corn feed meal, wheat middlings, ground oats, molasses, 1% calcium carbonate, 1% bone meal, 1% salt, potassium iodide.
Pen Mar Dairy Feed	G. 20.00 F. 21.01	4.00 4.76	56.00 58.69	.... 7.03	.... 8.51	10.00 8.24	Gluten feed, cottonseed meal, linseed meal, peanut meal, dried brewers' grains, ground oats, corn feed meal, wheat bran, wheat middlings, molasses, 1% calcium carbonate, 1% bone meal, 1% salt, potassium iodide, corn distillers' grains.
Dodge Grain Co. Methuen, Mass.							
Laying Mash	G. 17.00 F. 17.51	4.00 4.27	52.50 59.45	.... 9.28	.... 9.49	7.00 **8.78**	Coarse corn meal, wheat bran, wheat middlings, ground oats, 50% meat scraps, 50% fish meal, dried skim milk, salt, alfalfa leaf meal, ground oyster shell, soybean meal, cod liver oil, wheat germ oil, molasses, vitadine.
Starting, Growing Mash	G. 16.00 F. 18.56	4.00 4.02	50.00 58.89	.... 9.49	.... 9.04	7.00 **10.29**	Coarse corn meal, wheat bran, wheat middlings, ground oats, 50% meat scraps, 50% fish meal, dried skim milk, salt, alfalfa leaf meal, ground oyster shell, cod liver oil, vitadine.

Doughboy Mills **New Richmond, Wis.**								
Doughboy Pulverized Oats	G.	12.00	3.50	....	....	....	12.00	
	F.	11.87	2.72	72.76	3.77	8.88	12.44	
Dreyer Commission Co. **St. Louis, Mo.**								
Dryco Wheat Bran with Screenings ..	G.	14.50	3.50	54.00	....	....	10.00	Pure wheat bran, ground wheat screenings not exceeding mill run.
	F.	16.99	4.37	61.94	7.26	9.44	9.98	
Eastern Semolina Mills **Baldwinsville, N. Y.**								
Daisy Special Fancy Wheat Mixed Feed	G.	15.50	5.00	54.00	....	....	8.00	Mill run ground screenings.
	F.	16.81	4.43	63.36	3.72	11.68	6.19	
Eastern States Farmers' Exchange **Springfield, Mass.**								
Eastern States All Mash Breeder	G.	15.50	4.00	57.00	....	....	5.50	800 lbs. E. S. yellow corn meal, 320 lbs. wheat bran, 320 lbs. wheat flour middlings, 124.75 lbs. E. S. ground oats, 90 lbs. 50% protein meat scraps, 60 lbs. alfalfa leaf meal, 50 lbs. 58% protein fish meal, 50 lbs. E. S. ground barley, 40 lbs. 41% protein soybean oil meal, 40 lbs. oyster shell meal, 30 lbs. dried skimmed milk, 30 lbs. dried whey, 20 lbs. corn gluten meal, 10 lbs. dicalcium phosphate, 10 lbs. iodized salt, 5 lbs. fortified sardine oil with 1% wheat germ oil, .25 lb. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 98 p. p. m. Mn.
	F.	17.25	4.65	60.51	7.78	9.81	5.50	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Eastern States All Mash Developer ..	G. 14.50 F. 15.63	3.50 4.14	58.00 61.45	.... 7.96	.... 10.82	5.50 5.18	767.25 lbs. E. S. yellow corn meal, 300 lbs. wheat bran, 280 lbs. wheat flour middlings, 160 lbs. E. S. ground oats, 120 lbs. E. S. ground barley, 60 lbs. 41% protein soybean oil meal, 50 lbs. alfalfa leaf meal, 40 lbs. 50% protein meat scraps, 40 lbs. 58% protein fish meal, 40 lbs. cane molasses, 40 lbs. corn gluten meal, 40 lbs. dried whey, 40 lbs. oyster shell meal, 10 lbs. iodized salt, 10 lbs. dicalcium phosphate, 2.5 lbs. fortified sardine oil with 2% wheat germ oil, .25 lb. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 129 p. p. m. Mn.
Eastern States All Mash Egg	G. 15.50 F. 17.16	4.00 4.92	56.00 60.31	.... 8.26	.... 9.35	5.50 5.93	800 lbs. E. S. yellow corn meal, 335 lbs. wheat flour middlings, 330 lbs. wheat bran, 119.75 lbs. E. S. ground oats, 80 lbs. E. S. ground barley, 70 lbs. 50% protein meat scraps, 70 lbs. 58% protein fish meal, 50 lbs. alfalfa leaf meal, 50 lbs. 41% protein soybean oil meal, 50 lbs. oyster shell meal, 30 lbs. corn gluten meal, 10 lbs. iodized salt, 5 lbs. fortified sardine oil, .25 lb. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 197 p. p. m. Mn.

Eastern States Breeder Mash	G.	20.00	4.00	49.00	....	....	6.00	400 lbs. E. S. yellow corn meal, 249.5 lbs. E. S. ground oats, 240 lbs. wheat flour middlings, 240 lbs. wheat bran, 200 lbs. 50% protein meat scraps, 120 lbs. alfalfa leaf meal, 100 lbs. 58% protein fish meal, 90 lbs. E. S. ground barley, 80 lbs. 41% protein soybean oil meal, 70 lbs. oyster shell meal, 60 lbs. dried skimmed milk, 60 lbs. dried whey, 40 lbs. corn gluten meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt, 10 lbs. fortified sardine oil with 1% wheat germ oil, .5 lb. manganese sulphate equivalent to 61 p. p. m. Mn. Found 146 p. p. m. Mn.
	F.	20.31	4.95	53.19	12.36	9.19	5.54	
Eastern States Calf Starter	G.	23.00	4.00	52.00	....	....	4.00	600 lbs. E. S. yellow corn meal, 445 lbs. rolled oats, 310 lbs. wheat bran, 200 lbs. blood flour, 160 lbs. dried skim milk, 120 lbs. 32% protein old process linseed oil meal, 100 lbs. 41% protein soybean oil meal, 25 lbs. calcium carbonate, 20 lbs. iodized salt, 10 lbs. dicalcium phosphate, 10 lbs. fortified sardine oil.
	F.	26.05	4.56	54.63	5.97	8.79	3.24	
Eastern States Developer	G.	18.50	3.75	52.00	....	....	6.50	300 lbs. wheat bran, 300 lbs. E. S. ground oats, 250 lbs. E. S. yellow corn meal, 220 lbs. E. S. ground barley, 204.75 lbs. wheat flour middlings, 120 lbs. 41% protein soybean oil meal, 100 lbs. alfalfa leaf meal, 90 lbs. 50% protein meat scraps, 80 lbs. 58% protein fish meal, 80 lbs. dried whey, 80 lbs. cane molasses, 80 lbs. corn gluten meal, 60 lbs. oyster shell meal, 20 lbs. iodized salt, 10 lbs. dicalcium phosphate, 5 lbs. fortified sardine oil with 1% wheat germ oil, .25 lb. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 178 p. p. m. Mn.
	F.	19.79	4.45	58.00	9.45	8.31	6.44	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Eastern States Egg Mash	G. 20.00 F. 21.58	4.00 5.31	49.00 52.32	.... 12.28	.... 8.51	6.50 6.08	400 lbs. E. S. yellow corn meal, 300 lbs. wheat bran, 260 lbs. wheat flour middlings, 249.5 lbs. E. S. ground oats, 200 lbs. 50% protein meat scraps, 140 lbs. E. S. ground barley, 100 lbs. 58% protein fish meal, 100 lbs. 41% protein soybean oil meal, 80 lbs. alfalfa leaf meal, 80 lbs. oyster shell meal, 60 lbs. corn gluten meal, 20 lbs. iodized salt, 10 lbs. fortified sardine oil, .5 lb manganese sulphate equivalent to 61 p. p. m. of manganese. Found 97 p. p. m. Mn.
Eastern States Fattener	G. 14.50 F. 16.81	4.00 4.38	63.00 65.80	.... 3.02	.... 9.99	5.00 5.00	800 lbs. E. S. yellow corn meal, 400 lbs. corn oil meal, 200 lbs. ground oat groats, 140 lbs. dried skimmed milk, 140 lbs. wheat standard middlings, 140 lbs. wheat red dog, 110 lbs. E. S. ground oats, 60 lbs. 41% protein soybean oil meal, 10 lbs. iodized salt.
Eastern States Fitting Ration	G. 12.00 F. 14.27	3.50 3.94	60.00 65.86	.... 5.58	.... 10.35	8.50 7.19	500 lbs. wheat bran, 500 lbs. E. S. ground oats, 435 lbs. E. S. yellow corn meal, 200 lbs. cane molasses, 100 lbs. E. S. ground barley, 100 lbs. alfalfa leaf meal, 60 lbs. 32% protein old process linseed meal, 40 lbs. 41% protein soybean oil meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt, 5 lbs. fortified sardine oil.
Eastern States Flushing	G. 18.50 F. 19.82	3.00 3.87	55.00 60.56	.... 7.71	.... 8.04	4.50 4.13	515 lbs. wheat bran, 460 lbs. E. S. yellow corn meal, 360 lbs. dried whey, 360 lbs. dried skimmed milk, 100 lbs. 50% protein meat scraps, 60 lbs. 58% protein fish meal, 60 lbs. ground oat groats, 50 lbs. alfalfa leaf meal, 20 lbs. oyster shell meal, 10 lbs. iodized salt, 5 lbs fortified sardine oil.

Eastern States Fulpail	G. 20.00 F. 21.80	4.00 4.71	53.00 57.62	.... 6.82	.... 9.05	8.50 6.61	300 lbs. E. S. yellow corn feed meal, 280 lbs. E. S. ground oats, 260 lbs. wheat bran, 240 lbs. 41% protein soybean oil meal, 200 lbs. corn distillers' dried grains, 200 lbs. cane molasses, 140 lbs. 41% protein cottonseed meal prime quality, 120 lbs. corn gluten feed, 120 lbs. 20% cocoanut oil meal, 80 lbs. babassu kernel oil meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt
Eastern States Highland 16	G. 16.00 F. 16.02	4.00 3.83	58.00 63.80	.... 6.37	.... 9.98	11.00 7.53	440 lbs. hominy feed, 320 lbs. oat mill feed (oat hulls, oat shorts, oat middlings), 200 lbs. cane molasses, 160 lbs. brewers' dried grains, 140 lbs. wheat bran, 140 lbs. corn gluten feed, 120 lbs. 20% cocoanut oil meal, 100 lbs. 41% protein soybean oil meal, 80 lbs. corn distillers' dried grains, 80 lbs. wheat standard middlings, 80 lbs. 41% protein cottonseed meal prime quality, 80 lbs. babassu kernel oil meal, 20 lbs. wheat germ oil meal, 20 lbs. calcium carbonate, 20 lbs. iodized salt.
Eastern States Highland 20	G. 20.00 F. 21.01	4.00 4.31	54.00 58.57	.... 7.87	.... 8.24	11.50 10.68	280 lbs. oat mill feed (oat hulls, oat shorts, oat middlings), 280 lbs. 41% protein soybean oil meal, 200 lbs. corn gluten feed, 200 lbs. hominy feed, 200 lbs. cane molasses, 200 lbs. brewers' dried grains, 120 lbs. 20% cocoanut oil meal, 100 lbs. wheat bran, 100 lbs. corn distillers' dried grains, 100 lbs. babassu kernel oil meal, 80 lbs. 41% protein cottonseed meal prime quality, 80 lbs. wheat standard middlings, 20 lbs. wheat germ oil meal, 20 lbs. calcium carbonate, 20 lbs. iodized salt.

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Eastern States Hog Meal	G.	15.00	3.50	58.00	....	....	5.00	860 lbs. E. S. yellow corn meal, 500 lbs. E. S. ground barley, 140 lbs. 50% protein meat scraps, 119.5 lbs. wheat flour middlings, 100 lbs. wheat bran, 100 lbs. alfalfa leaf meal, 60 lbs. 32% protein old process linseed meal, 40 lbs. 41% protein soybean oil meal, 40 lbs. calcium carbonate, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt, .5 lb. irradiated yeast brewers' type.
	F.	17.20	4.53	59.73	8.98	9.56	4.57	
Eastern States Horse Feed	G.	10.50	3.50	63.00	....	....	7.00	780 bs. E. S. crimped oats, 720 lbs. E. S. yellow cracked corn, 200 lbs. wheat bran, 160 lbs. cane molasses, 100 lbs. 32% protein old process linseed meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt.
	F.	11.55	3.98	70.02	4.07	10.38	5.95	
Eastern States Milkmore	G.	24.00	4.50	49.00	....	....	8.50	360 lbs. 41% protein soybean oil meal, 260 lbs. 41% protein cottonseed meal prime quality, 240 lbs. E. S. ground oats, 240 lbs. wheat bran, 200 lbs. corn distillers' dried grains, 180 lbs. cane molasses, 140 lbs. 20% cocoanut oil meal, 120 lbs. E. S. yellow corn feed meal, 120 lbs. corn gluten feed, 80 lbs. babassu kernel oil meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt.
	F.	25.26	4.80	54.09	6.86	8.99	7.72	

Eastern States Sixteen	G. 16.00 F. 17.51	4.00 4.42	57.00 63.48	.... 5.41	.... 9.18	8.00 6.87	460 lbs. E. S. yellow corn feed meal, 340 lbs. E. S. ground oats, 320 lbs. wheat bran, 200 lbs. corn distillers' dried grains, 200 lbs. cane molasses, 100 lbs. corn gluten feed, 100 lbs. 41% protein soybean oil meal, 100 lbs. 20% cocoanut oil meal, 60 lbs. 41% protein cottonseed meal prime quality, 60 lbs. babassu kernel oil meal, 20 lbs. wheat germ oil meal, 20 lbs. dicalcium phosphate, 20 lbs. iodized salt.
Eastern States Starting and Broiler ..	G. 18.50 F. 20.23	4.00 4.89	53.00 58.16	.... 7.53	.... 9.19	5.00 4.71	550 lbs. E. S. yellow corn meal, 307.25 lbs. wheat flour middlings, 300 lbs. wheat bran, 200 lbs. ground oat groats, 100 lbs. alfalfa leaf meal, 100 lbs. 50% protein meat scraps, 100 lbs. 58% protein fish meal, 80 lbs. 41% protein soybean oil meal, 60 lbs. cane molasses, 60 lbs. corn gluten meal, 60 lbs. dried whey, 40 lbs. dried skimmed milk, 20 lbs. oyster shell meal, 10 lbs. iodized salt, 10 lbs. dicalcium phosphate, 2.5 lbs. fortified sardine oil with 2% wheat germ oil, .25 lb. manganese sulphate equivalent to 30 p. p. m. of manganese. Found 142 p. p. m. Mn.
Eastern States Succulence	G. 10.00 F. 11.25	1.50 1.58	60.00 69.77	.... 7.54	.... 9.86	18.00 15.33	1000 lbs. no. 1 alfalfa chopped ¼ in. size, 520 lbs. cane molasses, 250 lbs. E. S. crimped oats, 240 lbs. wheat bran.
Eastern States 32% Supplement Feed	G. 32.00 F. 32.92	4.50 5.03	40.00 44.38	.... 9.14	.... 8.53	8.00 6.91	560 lbs. 41% protein cottonseed meal prime quality, 560 lbs. 41% protein soybean oil meal, 260 lbs. distillers' corn dried grains, 160 lbs. 32% protein old process linseed meal, 140 lbs. corn gluten feed, 140 lbs. cane molasses, 100 lbs. wheat bran, 40 lbs. dicalcium phosphate, 40 lbs. iodized salt.

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
B. A. Eckhart Milling Co. **Chicago, Ill.**							
Ecko Pure Wheat Bran	G. 14.00 F. 16.77	3.50 4.13	50.00 62.20	.... 6.62	.... 10.28	12.00 9.53	
Elmore Milling Co. **Oneonta, N. Y.**							
Elmore Breeders' Mash	G. 20.00 F. 22.15	3.50 5.24	55.00 53.34	.... 11.00	.... 8.27	7.00 6.05	Wheat germ meal, yellow corn meal, wheat bran, wheat middlings, ground heavy oats, alfalfa leaf meal, meat and bone meal, fish meal, dried skim milk, cod liver meal, cod liver oil, manganese, oyster shell flour, salt.
Elmore Complete Starter-Brooder	G. 18.00 F. 19.44	4.00 4.45	55.00 58.37	.... 9.00	.... 8.74	6.00 5.73	Yellow corn meal, wheat bran, wheat middlings, oat meal flour, corn gluten meal, meat and bone meal, fish meal, soybean meal, manganese, oyster shell flour, dried buttermilk, alfalfa leaf meal, cod liver oil, salt.
Elmore Egg Mash	G. 20.00 F. 20.49	4.00 5.78	55.00 55.69	.... 8.98	.... 9.06	8.00 5.56	Dried skim milk, meat meal, second clear wheat flour, pure ground oats, wheat middlings, corn meal (No. 2 yellow), wheat bran, alfalfa leaf meal, fish meal, bone meal, cod liver oil, manganese, oyster shell flour, salt
Elmore Growing Mash	G. 17.00 F. 20.23	4.00 4.39	60.00 59.19	.... 7.13	.... 9.06	8.00 5.78	Dried buttermilk, meat meal, low grade wheat flour, alfalfa leaf meal, fish meal, bone meal, corn meal, pulverized oats, wheat middlings, cod liver oil, wheat bran, soybean oil meal, corn gluten meal, ground barley, manganese, oyster shell flour, salt.

Elmore M. A. C. Laying Mash	G. 18.00 F. 20.27	5.00 5.22	60.00 59.08	.... 6.39	.... 9.04	7.00 6.67	Alfalfa leaf meal, wheat bran (may contain mill run screenings), fish meal, wheat middlings, corn meal, dried skim milk, ground heavy oats, soybean oil meal, meat scraps, manganese, oyster shell flour, cod liver oil, salt.
Elmore Milk Grains Twenty	G. 20.00 F. 21.93	5.50 4.99	55.00 57.91	.... 6.97	.... 8.20	10.00 8.48	Wheat bran, dried brewers' grains, barley malt sprouts, cottonseed meal, soybean oil meal, hominy feed, cane molasses, corn distillers' grains, gluten feed, linseed oil meal, dried tomato pulp, wheat middlings, calcium carbonate, salt.
Elmore Stock Feed	G. 10.00 F. 10.07	3.00 4.75	60.00 72.99	.... 3.83	.... 8.36	12.00 10.65	Corn meal or hominy feed, ground oats, oat meal by-products (oat middlings, oat hulls, oat shorts), salt.
Elmore Turkey Growing Mash	G. 20.00 F. 20.14	3.50 4.56	55.00 57.19	.... 9.30	.... 8.81	8.00 5.75	Yellow corn meal, wheat bran, wheat middlings, ground heavy oats, ground barley, dehydrated alfalfa leaf meal, soybean oil meal, corn gluten meal, dried skim milk, meat scraps, fish meal, manganese, oyster shell flour, cod liver oil, salt.
Granger 20% Dairy Ration	G. 20.00 F. 24.61	4.00 3.64	55.00 55.41	.... 7.49	.... 8.85	11.00 8.83	Wheat bran, dried brewers' grains, corn meal or hominy feed, cottonseed meal, gluten feed, wheat middlings, cane molasses, ground heavy oats, soybean oil meal, calcium carbonate, salt.
John W. Eshelman & Sons Lancaster, Pa.							
Eshelman Certified 20% Dairy Ration	G. 20.00 F. 22.15	4.00 4.38	54.00 58.29	.... 6.74	.... 8.44	8.00 7.23	380 lbs. corn gluten feed, 340 lbs. hominy feed, 260 lbs. ground oats, 200 lbs. old process oil meal, 200 lbs. wheat bran, 140 lbs. cottonseed meal, 120 lbs. soybean oil meal, 100 lbs. wheat middlings, 100 lbs. corn distillers' dried grains, 100 lbs. cane molasses, 20 lbs. steamed bone meal, 20 lbs. calcium carbonate, 20 lbs. salt.

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Eshelman Challenge Dairy Feed	G. 24.00 F. 25.65	4.00 4.19	50.00 54.23	.... 7.60	.... 8.33	11.00 9.42	Cottonseed meal, wheat bran, corn gluten feed, cane molasses, corn gluten meal, ground oats, brewers' dried grains, corn distillers' dried grains, corn meal, O. P. linseed oil meal, O. P. soybean oil meal, ground grain screenings from wheat, 1% bone meal, 1% calcium carbonate, 1% salt.
Eshelman Conestoga 20 Dairy Feed ..	G. 20.00 F. 21.89	4.00 4.39	55.00 55.08	.... 8.31	.... 10.33	11.00 8.79	Cottonseed meal, wheat bran, cane molasses, corn gluten feed, brewers' dried grains, corn distillers' dried grains, O. P. soybean oil meal, O. P. linseed oil meal, reground grain screenings from wheat, 1% bone meal, 1% calcium carbonate, 1% salt.
Eshelman Pennsy 16 Dairy Feed	G. 16.00 F. 19.65	3.00 4.36	55.00 57.97	.... 8.18	.... 9.84	11.00 9.29	Wheat bran, cottonseed meal, cane molasses, corn gluten feed, brewers' dried grains, O. P. linseed oil meal, O. P. soybean oil meal, reground grain screenings from wheat, oat mill feed, oat middlings, oat hulls, oat shorts, 1% bone meal, 1% calcium carbonate, 1% salt.
Eshelman Pennsy Laying Mash	G. 18.00 F. 21.14	4.50 4.99	50.00 55.08	.... 9.64	.... 9.15	8.00 7.07	Corn meal, wheat middlings, meat scrap, wheat bran, ground oats, fine alfalfa meal, O. P. soybean oil meal, cane molasses, fish meal, corn gluten feed, O. P. linseed oil meal, fortified cod liver oil, 1% bone meal, 1% calcium carbonate, ½% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 72 p. p. m. Mn.

Eshelman Red Rose All-Mash Starter	G.	16.00	4.00	55.00	....	....	6.50	Corn meal, wheat bran, wheat middlings, oat meal, meat scrap, fish meal, O. P. soybean oil meal, alfalfa leaf meal, O. P. linseed oil meal, dried whey, dried buttermilk, fortified cod liver oil, 2¼% calcium carbonate, 1% bone meal, ½% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 79 p. p. m. Mn.
	F.	19.17	4.92	57.84	9.72	8.35	5.20	
Eshelman Red Rose Breeder Mash	G.	20.00	4.00	50.00	....	....	6.50	Corn meal, wheat middlings, wheat bran, ground oats, meat scrap, alfalfa leaf meal, O. P. soybean oil meal, dried skimmed milk, dried whey, fish meal, 2½% calcium carbonate, ½% fortified cod liver oil with 1% wheat germ oil, ½% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 85 p. p. m. Mn.
	F.	23.03	5.53	52.58	9.82	9.04	5.87	
Eshelman Red Rose Broiler Ration	G.	17.00	4.50	55.00	....	....	7.50	Corn meal, wheat bran, wheat middlings, corn gluten meal, pulverized oats, meat scrap, wheat red dog, O. P. soybean oil meal, alfalfa meal, dried buttermilk, dried whey, O. P. linseed oil meal, fish meal, fortified cod liver oil, 1% calcium carbonate, ½% salt, 1/80% manganese sulphate equivalent to 30 p.p. m. of manganese. Found 59 p. p. m. Mn.
	F.	20.70	4.50	57.38	7.92	9.50	6.89	
Eshelman Red Rose Complete Laying Mash	G.	15.00	4.00	58.00	....	....	6.00	Corn meal, ground wheat, ground barley, wheat middlings, wheat bran, ground oats, meat scrap, O. P. soybean oil meal, fine alfalfa meal, corn gluten feed, O. P. linseed oil meal, fish meal, dried buttermilk, dried whey, fortified cod liver oil, 1% calcium carbonate, ½% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 76 p. p. m. Mn.
	F.	17.95	4.26	60.25	8.30	9.24	5.35	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Eshelman Red Rose 16 Dairy Feed ..	G. 16.00 F. 19.22	4.50 4.96	55.00 59.72	.... 6.56	.... 9.54	11.00 8.75	Wheat bran, brewers' dried grains, corn distillers' dried grains, ground oats, cottonseed meal, corn meal, cane molasses, O. P. oil meal, corn gluten feed, soybean oil meal, 1% bone meal, 1% calcium carbonate, 1% salt.
Eshelman Red Rose 20 Dairy Feed ..	G. 20.00 F. 22.59	4.00 4.37	55.00 56.23	.... 6.42	.... 10.39	11.00 8.62	Wheat bran, cottonseed meal, ground oats, corn gluten feed, cane molasses, brewers' dried grains, corn distillers' dried grains, corn meal, O. P. linseed oil meal, O. P. soybean oil meal, wheat germ oil, 1% bone meal, 1% calcium carbonate, 1% salt.
Eshelman Red Rose Fattening Mash ..	G. 14.00 F. 17.77	4.50 4.53	60.00 61.23	.... 6.74	.... 9.73	5.50 4.36	Corn meal, hominy feed, pulverized oats, corn germ meal, wheat red dog, rolled oats, O. P. soybean oil meal, meat scrap, O. P. linseed oil meal, dried buttermilk, dried whey, 1½% calcium carbonate, 1% bone meal, ½% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 68 p. p. m. Mn.
Eshelman Red Rose Fitting Ration ..	G. 12.00 F. 16.02	3.50 4.57	61.00 63.02	.... 5.85	.... 10.54	7.00 6.49	Wheat bran, crushed oats, corn meal, hominy feed, O. P. linseed oil meal, O. P. soybean oil meal, cane molasses, wheat germ oil, 1% bone meal, 1% calcium carbonate, 1% salt.
Eshelman Red Rose Growing Mash ..	G. 16.00 F. 20.31	4.00 4.95	55.00 56.53	.... 8.96	.... 9.25	7.50 7.26	Wheat middlings, corn meal, wheat bran, meat scrap, pulverized oats, corn gluten feed, oat meal, O. P. soybean oil meal, hominy feed, O. P. linseed oil meal, fish meal, dried buttermilk, dried whey, fine alfalfa meal, fortified cod liver oil, 1% calcium carbonate, ½% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 89 p. p. m. Mn.

Eshelman Red Rose Laying Mash ...	G. 20.00 F. 24.17	5.00 5.64	50.00 51.81	.... 9.14	.... 9.24	7.50 6.60	Wheat middlings, corn meal, meat scrap, wheat bran, corn gluten feed, ground oats, O. P. linseed oil meal, fish meal, O. P. soybean oil meal, hominy feed, dehydrated alfalfa meal, dried skimmed milk, dried whey, fortified cod liver oil, 2% calcium carbonate, ½% salt, 1/80% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 69 p. p. m. Mn.
Eshelman Red Rose Pig and Hog Meal	G. 18.00 F. 20.14	4.00 4.73	55.00 56.20	.... 9.25	.... 9.68	10.00 7.31	Wheat middlings, corn feed meal, digester ankage, O. P. soybean oil meal, wheat bran, O. P. linseed oil meal, fish meal, reground grain screenings from wheat, 2% bone meal, 2% charcoal, 1% calcium carbonate, 1% bone meal.
Eshelman S-O-S (Sack of Silage) ..	G. 11.00 F. 13.14	2.00 2.30	55.00 64.54	.... 9.61	.... 10.41	15.00 14.38	Wheat bran, alfalfa meal, brewers' dried grains, cane molasses, dried beet pulp, dried citrus pulp, 1% bone meal, 1% calcium carbonate, 1% salt.
Excelsior Milling Co. **Minneapolis, Minn.**							
Camel Wheat Mixed Feed	G. 15.00 F. 16.51	4.00 4.02	65.00 64.23	.... 5.56	.... 9.68	8.50 7.73	Wheat red dog, wheat middlings, wheat bran.
Farm Service Co. **Fitchburg, Mass.**							
Diamond C Dairy	G. 20.00 F. 21.30	4.00 4.74	53.00 56.38	.... 7.84	.... 9.64	9.00 6.58	Corn meal, hominy, wheat bran (with wheat screenings not exceeding mill run), ground oats, corn gluten feed, corn gluten meal, linseed oil meal, cottonseed meal, soybean oil meal, calcium carbonate, salt, (with or without molasses).

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Diamond C Laying Mash	G.	15.00	4.00	55.00	....	....	8.50	Corn meal, wheat bran (with wheat screenings not exceeding mill run), wheat middlings (with wheat screenings not exceeding mill run), pulverized oats, ground oats, meat scraps, alfalfa meal, bone meal, salt.
	F.	17.82	5.68	58.78	8.58	9.14	5.78	
Farm Service All Mash	G.	16.00	4.50	50.00	....	....	5.00	Corn meal, wheat bran and wheat middlings (both with wheat screenings not exceeding mill run), coarse ground wheat, pulverized oats, oat groats, fine cracked corn, soybean oil meal, dehydrated alfalfa leaf meal, 50% meat scraps, fish meal, cod liver meal, dried whey, dried skim milk, oyster shell meal, salt, fortified cod liver oil.
	F.	19.74	5.03	58.59	7.35	9.29	5.66	
Farm Service 20% Dairy	G.	20.00	3.50	50.00	....	....	10.00	Corn meal, hominy, wheat bran (with wheat screenings not exceeding mill run), corn gluten feed, oat middlings, soybean oil meal, soybean flakes, dried brewers' grains, cottonseed meal, linseed oil meal, beet pulp, malt feed, edible bone meal, molasses, calcium carbonate, salt, corn distillers' grains.
	F.	23.38	4.35	57.17	6.14	8.96	8.42	
Farm Service 14% Fitting Ration	G.	14.00	4.00	55.00	....	....	8.00	Corn meal, hominy, wheat bran and wheat middlings both with wheat screenings not exceeding mill run, crushed oats, soybean oil meal, O. P. oil meal, alfalfa stem meal, fish meal, edible bone meal, calcium carbonate, manganese, salt, fortified cod liver oil.
	F.	15.41	4.29	63.17	6.39	10.74	7.17	

Farm Service Growing Mash	G.	18.00	4.00	55.00	....	....	7.00	Corn meal, wheat bran, wheat middlings both with wheat screenings not exceeding mill run, corn gluten feed, pulverized oats, dehydrated alfalfa leaf meal, soybean oil meal, ground barley, linseed oil meal, fish meal, meat scraps, dried skim milk, dried whey, salt, fortified cod liver oil, manganese sulphate, calcium carbonate.
	F.	21.01	5.55	54.86	9.53	9.05	6.11	
Farm Service Horse Feed	G.	8.00	2.00	50.00	....	....	9.00	Cracked corn, crushed oats, wheat bran with wheat screenings not exceeding mill run, ground barley, alfalfa meal, salt, molasses.
	F.	10.68	3.25	72.03	3.60	10.14	7.73	
Farm Service Laying Mash	G	20.00	5.00	50.00	....	....	7.00	Corn meal, wheat bran and wheat middlings both with wheat screenings not exceeding mill run, corn gluten feed, pulverized oats, dehydrated alfalfa leaf meal, soybean meal, ground barley, fish meal, meat scraps, dried skim milk, dried whey, calcium carbonate, salt, fortified cod liver oil.
	F.	25.20	5.29	50.86	11.34	9.31	5.47	
Farm Service Starter and Broiler Ration	G.	18.00	5.00	60.00	....	....	7.00	Corn meal, pulverized oats, ground barley, wheat bran and wheat middlings (both with wheat screenings not exceeding mill run), soybean oil meal, alfalfa meal, 45% meat scraps, fish meal, dried skim milk, oyster shell meal, salt, fortified cod liver oil, corn gluten meal.
	F.	19.13	5.09	58.05	9.00	8.73	6.26	
Farm Service Stock Feed	G.	9.00	3.00	65.00	....	....	12.00	Corn meal, hominy, wheat middlings (with wheat screenings not exceeding mill run), red dog, ground barley, oat middlings, molasses, calcium carbonate, salt.
	F	10.46	4.22	70.75	5.39	9.18	9.44	
N. E. C. Laying Mash	G	19.00	5.00	50.00	....	....	6.00	Corn meal, wheat bran, flour middlings, ground oats, meat scraps, alfalfa meal, dried milk, fish meal, calcium carbonate, salt, cod liver oil.
	F	18.30	5.97	57.18	8.02	10.23	5.97	

Manufacturer / Brand		Pounds in 100 lbs. of Feeding Stuffs: Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
Farmers' Feed Co. **New York, N. Y.**								
Dried Brewers' Grains Bull Brand ..	G.	26.00	6.00	....	....	....	17.00	
	F.	25.71	6.63	55.04	3.65	8.97	14.98	
Federal Mill **Lockport, N. Y.**								
Dairy Maid Bran	G.	13.50	3.50	57.00	....	....	13.00	Soft winter wheat.
	F.	14.84	4.34	64.62	6.64	9.56	9.87	
Dairy Maid Soft Winter Wheat Mixed Feed	G.	13.00	3.50	57.00	....	....	9.50	Winter wheat bran and winter wheat middlings with ground wheat screenings not exceeding mill run.
	F.	15.28	4.29	66.41	4.60	9.42	7.73	
Dairy Maid Soft Winter Wheat Standard Middlings	G.	13.50	3.50	58.00	....	....	8.50	With ground wheat screenings not exceeding mill run.
	F.	16.51	4.04	65.95	3.55	9.95	5.37	
Lucky Hard Wheat Bran	G.	15.00	3.50	50.00	....	....	12.00	
	F.	17.34	4.95	61.81	6.22	9.68	10.13	
Lucky Hard Wheat Standard Middlings	G.	16.00	4.00	56.00	....	....	9.50	With ground wheat screenings not exceeding mill run.
	F.	19.09	5.31	60.99	4.39	10.22	6.02	
Lucky Wheat Red Dog	G.	15.00	2.50	58.00	....	....	4.00	
	F.	16.99	3.79	65.91	2.68	10.63	3.78	

Fernando Valley Milling and Supply Co. Van Nuys, California								
Alfalfa Leaf Meal, Ideal Poultry Greens	G.	20.00	2.50	53.00	....	....	18.00	
	F.	19.68	2.43	57.07	12.50	8.32	18.87	
Finger Lakes and Hudson Flour Mills Geneva, N. Y.								
Kangaroo Red Dog	G.	16.00	3.50	62.00	....	....	4.00	Pure wheat product.
	F.	18.39	3.99	63.57	2.85	11.20	3.01	
Rye Feed	G.	13.50	3.00	....	....	....	6.00	Rye bran and rye middlings and any fine screenings that may be in the rye grain.
	F.	17.47	3.24	63.97	3.99	11.33	5.07	
First National Stores Somerville, Mass.								
Henfield Egg Mash	G.	20.00	4.00	50.00	....	....	7.00	Fortified cod liver oil, meat scraps, fish meal, dried skim milk, alfalfa meal, pulverized oats, hominy or corn meal, wheat middlings, wheat bran, wheat flour middlings, corn gluten feed, soybean oil meal, 1% steamed bone meal, calcium carbonate, ½% salt.
	F.	21.89	4.93	54.85	10.82	7.51	7.00	
J. A. Forrest Co. Minneapolis, Minn.								
Alpine Wheat Bran	G.	15.00	3.50	53.00	....	....	11.50	
	F.	17.42	5.21	60.99	5.69	10.69	10.90	
J. B. Garland & Son Worcester, Mass.								
Dunbar's Dairy Ration	G.	22.00	4.50	48.00	....	....	10.00	Wheat bran, linseed meal, cottonseed meal, brewers' grains, fine ground oats, hominy, gluten meal, bone meal, charcoal, calcium carbonate, salt.
	F.	24.78	4.44	54.32	7.80	8.66	9.29	
Garland Horse Feed	G.	10.00	3.00	60.00	....	....	9.00	Cracked corn, crimped oats, linseed oil meal, wheat bran, molasses, ½% fine table salt.
	F.	11.86	3.68	69.91	3.41	11.14	6.45	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Mois-ture	Crude Fiber	
Garland Laying Mash	G. 18.00 F. 20.75	3.00 5.41	55.00 55.19	.... 8.99	.... 9.66	7.00 6.07	Alfalfa leaf meal, soybean meal, fish meal, meat scraps, dried buttermilk, vitamin tested cod liver oil, linseed oil meal, wheat bran, wheat middlings, ground oats, ground wheat, corn meal, calcium carbonate, salt.
Royal 20% Dairy Ration	G. 20.00 F. 22.51	4.00 4.32	50.00 56.83	.... 7.03	.... 9.31	11.00 8.61	Distillers' dried grains, corn gluten feed, soybean oil meal, wheat and wheat bran processed, cottonseed meal, palm kernel meal, ground corn, ground oats, molasses, calcium carbonate, salt.
Royal Laying Mash	G. 18.00 F. 19.44	3.00 5.06	50.00 56.23	.... 9.89	.... 9.38	8.00 6.86	Alfalfa meal, corn meal, ground oats, ground wheat, dried buttermilk, wheat bran, wheat middlings, vitamin tested cod liver oil, fish meal, meat scraps, linseed oil meal, soybean meal, calcium carbonate, salt.
General Mills Minneapolis, Minn.							
Washburn's Gold Medal Hard Wheat Bran	G. 14.00 F. 16.15	3.50 4.44	63.00 62.39	.... 6.75	.... 10.27	12.00 10.72	Hard wheat bran, mill run cleaned ground wheat screenings.
Washburn's Gold Medal Hard Wheat Standard Middlings	G. 15.00 F. 17.29	4.00 4.56	62.50 63.63	.... 4.18	.... 10.34	9.50 7.17	Hard wheat standard middlings, mill run cleaned ground wheat screenings.
Georgia Distributing Co. Atlanta, Ga.							
Gold Dust Brand 41% Cottonseed Meal	G. 41.00 F. 41.11	5.00 5.99	41.00 40.30	.... 6.23	.... 6.37	14.00 11.55	Made from upland cottonseed only.

Glidden Company **Chicago, Ill.**							
Glidden Diamond Brand 41% Soybean Oil Meal	G.	41.00	4.00	29.00	....	....	7.00
	F.	43.86	5.96	35.00	5.81	9.37	5.86
Glidden 4 hi Brand Soybean Oil Meal	G.	44.00	0.50	29.00	....	....	7.00
	F.	47.23	0.50	35.63	5.67	10.97	5.22
Gorton-Pew Fisheries Co. **Gloucester, Mass.**							
Gorton's Red Fish Meal	G.	55.00	5.00	....	....	....	2.00
	F.	55.47	10.09	....	27.58	6.19	....
Grafton County Feed Co. **North Haverhill, N. H.**							
Our Mix Dairy Ration	G.	22.00	4.50	53.00	....	....	7.00
	F.	22.42	4.79	56.44	6.57	9.78	8.71
D. H. Grandin Milling Co. **Jamestown, N. Y.**							
Grandin's Broiler Mash	G.	20.00	4.00	57.00	....	....	8.00
	F.	21.89	4.91	52.77	10.77	9.66	5.6
Grandin's Chick and Broiler Ration	G.	16.00	4.00	58.00	....	....	6.0
	F.	18.91	4.78	57.17	9.35	9.49	5.74

Hominy feed, pure wheat bran, brewers' dried grains, 41% cottonseed meal, standard wheat middlings, corn gluten feed, soybean oil meal or O. P. linseed oil meal, molasses, salt, edible bone meal, calcium carbonate.

Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, wheat bran, wheat middlings, ground wheat, feeding oat meal, ground yellow corn, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese carbonate.

Concentrated cod liver oil, dried buttermilk, ground meat and bone, fish meal, soybean oil meal, alfalfa leaf meal, ground hulled oats, ground wheat, wheat bran, wheat middlings, pulverized oats, ground barley, hominy feed, ground yellow corn, calcium carbonate, salt, potassium iodide.

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Grandin's 20 Dairy Feed	G. 20.00 F. 21.10	4.00 4.13	55.00 58.47	.... 7.29	.... 9.01	10.00 6.39	Cane molasses, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten feed, corn distillers' dried grains, wheat bran and wheat middlings (with mill run wheat screenings), yellow corn meal, hominy feed, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
Grandin's 24 Dairy Feed	G. 24.00 F. 25.57	4.00 4.15	50.00 53.42	.... 7.35	.... 9.51	10.00 6.31	Cane molasses, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, wheat bran and wheat middlings (with mill run wheat screenings), yellow corn meal, hom-hominy feed, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
Grandin's 14 Fitting Ration	G. 14.00 F. 15.59	4.00 4.42	65.00 63.17	.... 6.93	.... 9.89	9.00 6.33	Fortified cod liver oil, cane molasses, fish meal, soybean oil meal, linseed oil meal, wheat bran and wheat middlings (with mill run wheat screenings), yellow corn meal, hominy feed, crushed oats, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
Grandin's Growing Mash	G. 15.00 F. 16.50	4.00 4.19	55.00 58.46	.... 12.22	.... 8.63	8.00 6.93	Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten feed, dehydrated alfalfa leaf meal, wheat bran, wheat middlings, ground yellow corn, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulfate.

Grandin's Laying Mash	G.	20.00	4.00	50.00	....	....	8.00	Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, corn gluten feed, dehydrated alfalfa leaf meal, wheat bran, wheat middlings, ground yellow corn, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulfate.
	F.	22.28	3.68	52.84	12.01	9.19	7.34	
Grandin's Pig and Hog Ration	G.	18.00	4.00	57.00	....	....	10.00	Fortified cod liver oil, meat scraps, fish meal, soybean oil meal, linseed oil meal, alfalfa meal, wheat middlings (with mill run wheat screenings), yellow corn meal, corn feed meal, hominy feed, ground barley, calcium carbonate, salt, potassium iodide.
	F.	21.49	4.61	54.81	10.49	8.60	6.47	
Grandin's Start-To-Finish Mash	G.	16.00	4.00	58.00	....	....	7.00	Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten feed, dehydrated alfalfa leaf meal, wheat bran, wheat middlings, ground wheat, ground yellow corn, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulphate.
	F.	17.94	3.88	59.99	8.44	9.75	7.38	
Grandin's Stock Feed	G.	9.00	4.00	70.00	....	....	12.00	Hominy feed, corn meal, corn feed meal, ground oats, ground barley, oat mill feed (oat hulls, oat shorts, oat middlings), steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	9.10	4.00	72.63	5.87	8.40	10.31	
Grandin's Twin Six Dairy Feed	G.	22.00	4.50	55.00	....	....	10.00	Cane molasses, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, alfalfa meal, wheat bran and wheat middlings, with mill run wheat screenings, yellow corn meal, hominy feed, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	24.43	5.28	53.93	8.17	8.19	6.94	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
M-S Money Saver 20 Dairy Feed	G.	20.00	3.50	50.00	....	....	12.00	Cane molasses, cottonseed meal, soybean oil meal, linseed oil meal, corn gluten feed, corn distillers' dried grains, brewers' dried grains, wheat bran, wheat middlings, ground wheat screenings, corn feed meal, ground oats, ground barley, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	22.86	3.55	57.06	7.18	9.35	6.50	
M-S Money Saver Laying Mash	G.	18.00	4.00	50.00	....	....	8.00	Fortified cod liver oil, dried buttermilk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten feed, alfalfa leaf meal, wheat bran, wheat middlings, yellow corn meal, corn feed meal, hominy feed, pulverized oats, ground barley, calcium carbonate, salt, potassium iodide, manganese sulfate.
	F.	22.02	3.35	54.01	11.77	8.85	6.88	
Great Atlantic & Pacific Tea Co. New York, N. Y.								
Daily Egg Laying Mash Feed	G.	16.00	4.00	55.50	....	....	6.50	Corn feed meal, wheat standard middlings, meat and bone scraps, ground barley, corn gluten meal, wheat bran, alfalfa meal, ground oats, wheat flour middlings, 2½% calcium carbonate from limestone, dried skimmed milk, linseed oil meal, soybean oil meal, 1½% steamed bone meal, dried buttermilk, fish meal, cod liver meal, ½% salt, fortified cod liver oil, .02% red iron oxide, .0015% potassium iodide.
	F.	21.67	4.31	54.92	10.53	8.57	6.28	
Daily Growth Broiler Mash	G.	18.00	3.50	56.00	....	....	6.00	Ground yellow corn, ground oats, alfalfa meal, dried skim milk, meat and bone scraps, corn gluten meal, soybean oil meal, wheat bran, wheat standard middlings, cod liver oil, 2% calcium carbonate from limestone, ½% steamed bone meal, ½% salt, .015% manganese sulphate equivalent to 36 p. p. m. of manganese. Found 46 p. p. m. Mn.
	F.	19.41	4.01	58.13	10.07	8.35	5.47	

Daily Growth Chick Starter	G.	17.00	4.50	56.50	....	....	4.50	Ground yellow corn, wheat standard middlings, meat and bone scraps, ground oat groats, ground oats, alfalfa leaf meal, dried buttermilk, fish meal, wheat low-grade feed flour, old process linseed oil meal, 1% calcium carbonate from limestone, ½% steamed bone meal, ½% iodized salt, vitamin A and D feeding oil, .015% manganese sulphate equivalent to 36 p. p. m. of manganese. Found 70 p. p. m. Mn.
	F.	17.08	4.54	59.34	9.88	9.16	5.16	
Daily Growth Growing Mash	G.	17.50	4.00	56.50	....	....	6.50	Corn feed meal, wheat standard middlings, corn gluten feed, meat and bone scraps, ground barley, wheat bran, alfalfa leaf meal, ground oats, dried buttermilk, dried skimmed milk, linseed oil meal, 1% calcium carbonate from limestone, ½% steamed bone meal, ½% salt, fortified cod liver oil.
	F.	20.75	5.04	56.22	9.53	8.46	6.50	
Daily Milk Dairy Feed	G.	16.00	3.00	58.00	....	....	12.00	Cleaned ground and bolted screenings from wheat, oats, barley and flax, cane molasses, ground and bolted clipped oat by-product, corn gluten feed, cottonseed meal, wheat bran, soybean oil meal, old process linseed oil meal, corn gluten meal, wheat standard middlings, malt sprouts, 1% calcium carbonate from limestone, 1% salt.
	F.	19.26	4.41	56.41	10.01	9.91	10.47	
Milky Way Dairy Feed 20%	G.	20.00	2.75	56.00	....	....	9.00	Wheat standard middlings, wheat bran, cane molasses, cottonseed meal, soybean oil meal, malt sprouts, corn gluten feed, corn gluten meal, ground barley, old process linseed oil meal, ground oats, dried grains from barley, malt and corn, corn feed meal, 1% calcium carbonate from limestone, 1% iodized salt.
	F.	25.04	3.34	52.37	8.80	10.45	7.82	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
Milky Way Dairy Feed 24%	G.	24.00	2.75	52.00	....	....	9.00	Soybean oil meal, wheat standard middlings, corn gluten meal, cane molasses, wheat bran, cottonseed meal, corn gluten feed, ground oats, malt sprouts dried grains from barley, malt and corn, old process linseed oil meal, corn feed meal, ground barley, 1% calcium carbonate from limestone, 1% iodized salt.
	F.	24.52	3.33	52.79	8.09	11.27	7.51	
Heywood Milling Co. Jackson, Mich.								
Heywood Pure Bran	G.	14.50	3.50	55.00	....	....	10.00	
	F.	15.89	4.20	62.65	5.99	11.27	8.65	
Heywood Heavy Mixed Feed	G.	16.50	3.50	55.00	....	....	8.50	Ground screenings not to exceed mill run, winter wheat.
	F.	**15.30**	4.07	64.26	4.91	11.46	7.21	
Heywood Middlings	G.	15.50	4.50	60.00	....	....	6.50	With ground screenings not to exceed mill run.
	F.	**14.84**	**3.60**	66.43	3.03	12.10	3.75	
Hood Mills Co. Baltimore, Md.								
Fine Ground Feeding Oat Meal	G.	14.00	5.00	....	....	....	4.00	Feed oats.
	F.	17.95	6.42	60.42	4.57	10.64	3.21	
Pulverized Oats	G.	12.00	3.00	....	....	....	12.00	Made from feed oats, other grains within limits, official grain standards.
	F.	**10.68**	**1.79**	74.71	3.34	9.48	12.32	
E. C. & W. L. Hopkins Greenfield, N. H.								
Cheshire Mash	G.	18.00	4.00	50.00	....	....	7.00	Dried skim milk, wheat bran, corn meal, corn gluten feed, beef scraps, wheat middlings, alfalfa meal, ground oats, calcium carbonate, salt.
	F.	20.18	4.61	54.22	11.98	9.01	6.61	

Granite State Breeder Mash	G. 20.00	4.00	50.00	....	....	6.00	Corn meal, wheat middlings, wheat bran, ground barley, meat scraps, vacuum dried fish meal, dried skim milk, pure Pacific kelp, dehydrated alfalfa meal, ground oats, dried whey, soybean oil meal, lactoflavin concentrate, concentrated cod liver oil, calcium carbonate, manganese sulphate.
	F. 20.97	5.19	50.10	14.23	9.51	5.07	
Granite State Chick Starter	G. 16.00	4.00	50.00	....	....	6.00	Yellow corn meal, wheat bran, wheat middlings, feeding oat meal, soybean oil meal, dried whey, lactoflavin concentrate, choice meat scraps, alfalfa leaf meal, Pacific coast kelp, vacuum dried fish meal, concentrated cod liver oil, calcium carbonate, dried skim milk, manganese sulphate.
	F. 19.44	4.57	55.08	10.15	10.76	5.27	
Granite State Complete Growing Mash	G. 15.00	4.00	56.00	....	....	9.00	Ground whole corn, ground whole oats, ground whole wheat, wheat bran, wheat middlings, alfalfa leaf meal, soybean meal, Pacific coast kelp, dried skim milk, meat scraps, vacuum dried fish meal, calcium carbonate, concentrated oil (fortified in vitamins A and D), manganese sulphate.
	F. 17.77	4.56	57.44	9.45	10.78	5.36	
Granite State Complete Mash	G. 15.00	4.00	56.00	....	....	9.00	Ground whole corn, ground whole oats, ground whole wheat, wheat bran, wheat middlings, alfalfa leaf meal, soybean meal, Pacific coast kelp, dried skim milk, dried whey, meat scraps, vacuum dried fish meal, calcium carbonate, concentrated anti-rachitic oil.
	F. 18.30	5.41	57.08	9.50	9.71	5.94	
Granite State 20% Dairy Feed	G. 20.00	4.00	50.00	....	....	11.00	Corn meal, gluten feed, cottonseed meal, old process linseed meal, malt grain, wheat bran, soybean meal, distillers' grain, molasses, bone meal, kelp, calcium carbonate, salt.
	F. 21.98	4.57	55.59	8.14	9.72	7.07	

Manufacturer Brand		Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Granite State 24% Dairy Feed	G	24.00	4.00	48.00	....	....	10.00	Gluten feed, corn meal or hominy, O. P. oil meal, wheat bran, choice cottonseed meal, malt grain, molasses, ground oats, distillers' grain, soybean meal, bone meal, calcium carbonate, kelp.
	F.	25.92	4.25	51.22	8.79	9.82	7.75	
Granite State Egg Mash	G	19.00	4.00	50.00	....	....	5.50	Dried skim milk, ground whole oats, ground whole corn, wheat middlings, wheat bran, gluten meal, meat scraps, alfalfa leaf meal, Pacific coast kelp, vacuum dried fish meal, calcium carbonate, concentrated fish oil.
	F	20.01	5.63	53.40	11.80	9.16	5.12	
Granite State Fitting Ration	G	12.00	3.50	54.00	....	....	8.00	Wheat bran, wheat middlings, corn meal, hominy, molasses, ground oats, O. P. oil meal, soybean meal, calcium carbonate, kelp.
	F.	15.98	4.24	60.45	7.17	12.16	6.69	
Granite State Growing Mash	G	17.00	4.00	58.00	....	....	6.50	Ground whole corn, wheat bran, wheat middlings, soybean oil meal, dehydrated alfalfa leaf meal, ground whole oats, meat scraps, dried skim milk, Pacific coast kelp, vacuum dried fish meal, calcium carbonate, concentrated cod liver oil, manganese sulphate, dried whey.
	F.	19.44	5.05	53.51	12.73	9.27	6.19	
Granite State Horse Feed	G	10.00	4.00	65.00	....	....	8.00	Crimped heavy oats, wheat bran, cracked corn, O. P. oil meal, cane molasses, salt.
	F	12.87	3.59	66.96	3.66	13.01	4.93	
Granite State Mixed Feed	G	15.00	4.00	55.00	....	....	8.50	Wheat bran, wheat red dog (bran may contain ground screenings not exceeding mill run).
	F	18.65	5.16	60.16	5.75	10.28	7.82	

Granite State Stock Feed	G. 9.00	5.00	60.00	....	....	10.00	Fine white hominy, wheat red dog, oat by-products, oat middlings, oat hulls, oat shorts, ½% salt.
	F. 9.54	5.25	71.00	5.60	7.91	9.08	
20% Open Formula Dairy Feed	G. 20.00	4.50	53.00	....	....	8.00	460 lbs. yellow hominy, 400 lbs. wheat bran, 260 lbs. dried distillers' grain, 200 lbs. corn gluten feed, 200 lbs. 41% cottonseed, 200 lbs. soybean meal, 140 lbs. molasses, 100 lbs. ground oats, 20 lbs. dicalcium phosphate, 20 lbs. salt.
	F. 23.95	4.62	54.86	5.81	10.76	6.25	
Page Dairy	G. 21.00	4.00	52.00	....	....	9.00	Corn meal or hominy, ground oats, wheat bran, dried corn distillers' grain, corn gluten feed, 41% cottonseed meal, soybean oil meal, molasses, bone meal, calcium carbonate, salt.
	F. 23.52	4.86	53.88	7.45	10.29	7.43	
Red Tag Open Formula Dairy Feed..	G. 20.00	4.00	53.00	....	....	12.00	400 lbs. distillers' corn dried grains, 360 lbs. oat feed, 260 lbs. yellow hominy feed, 260 lbs. 41% cottonseed, 200 lbs. cane molasses, 200 lbs. corn gluten feed, 180 lbs. soybean oil meal, 100 lbs. wheat bran, 20 lbs. oyster shell meal, 20 lbs. salt.
	F. 22.94	4.00	55.64	7.58	9.84	10.12	
Humphreys-Godwin Co. Memphis, Tenn.							
Dixie Brand Cottonseed Meal	G. 41.00	5.00	26.00	....	....	12.00	Made from pressed cottonseed.
	F. 41.16	5.74	38.12	6.99	7.99	11.33	
International Milling Co. Minneapolis, Minn.							
Blackhawk Pure Wheat Bran	G. 15.00	3.20	62.00	....	....	12.00	Pure wheat bran.
	F. 18.17	4.46	60.78	6.96	9.63	9.41	
Blackhawk Standard Wheat Bran ...	G. 15.00	3.20	62.00	....	....	12.00	Wheat bran with ground screenings not exceeding mill run.
	F. 17.51	5.29	61.45	5.29	10.46	10.51	
Blackhawk Wheat Red Dog	G. 16.00	3.50	64.00	....	....	4.00	
	F. 20.00	4.40	61.77	3.22	10.61	4.54	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
Blackhawk Wheat Standard Middlings	G.	16.00	4.50	60.50	....	....	8.50	With ground screenings not exceeding mill run.
	F.	17.25	4.27	64.27	3.92	10.29	6.54	
Ralph P. Johnson & Son Potter Place, N. H.								
Johnson's Chick Starter	G.	16.00	3.00	50.00	....	....	10.00	Corn meal, wheat bran, wheat middlings, feeding oat meal, meat scraps, dried skim milk, alfalfa meal, fish meal, soybean meal, calcite flour, manganese sulphate, cod liver oil, 1% salt.
	F.	18.87	4.95	56.65	8.94	10.59	4.22	
Johnson's Dairy Feed	G.	16.00	3.00	50.00	....	....	9.00	Corn meal, linseed meal, cottonseed meal, ground oats, wheat bran, gluten feed, 1% salt.
	F.	18.48	3.37	60.87	6.82	10.46	6.97	
Johnson's Growing Mash	G.	14.00	3.50	50.00	....	....	8.00	Corn meal, wheat bran, wheat middlings, ground oats, dried skim milk, fish meal, meat scraps, alfalfa meal, soybean meal, gluten feed, calcite flour, cod liver oil, manganese sulphate, 1% salt.
	F.	18.65	4.84	57.53	8.71	10.27	5.73	
Johnson's Mash Feed	G.	17.00	4.00	50.00	....	....	7.00	Corn meal, ground oats, wheat middlings, wheat bran, meat scraps, gluten feed, alfalfa meal, charcoal, soybean meal, dried skim milk, calcite flour, bone meal, cod liver oil, 1% salt.
	F.	18.39	4.42	57.15	8.77	11.27	6.39	
Kasco Mills Waverly, N. Y.								
Apex 20% Dairy Ration	G.	20.00	3.50	50.00	....	....	12.00	Cottonseed meal, corn gluten feed, corn gluten meal, wheat bran, ground wheat screenings, oat mill feed (oat middlings, oat shorts, oat hulls), malt sprouts, dried brewers' grains, corn distillers' grains, cane molasses, 1% salt, 1% calcite, soybean oil meal.
	F.	21.19	3.86	56.72	9.09	9.14	10.74	

Apex Growing Mash	G.	17.00	4.00	50.00	....	....	8.50	Corn meal, pulverized oats, ground barley, wheat bran, wheat middlings, linseed oil meal, soybean oil meal, alfalfa meal, meat scrap, fish meal, bone meal, dried skim milk, dried whey, lactoflavin concentrate, ¾% salt, calcite, tested cod liver oil.
	F.	20.27	4.21	57.02	6.91	11.59	6.44	
Apex Laying Mash	G.	20.00	4.00	50.00	....	....	8.50	Wheat bran, wheat middlings, corn meal, linseed oil meal, soybean oil meal, pulverized oats, ground barley, meat scrap, bone meal, fish meal, dried skim milk, dried whey, lactoflavin concentrate, ¾% salt, calcite, tested cod liver oil, alfalfa meal.
	F.	20.49	4.49	57.41	7.96	9.65	5.58	
Beatsall Milk Grains	G.	22.00	4.00	50.00	....	....	10.00	Wheat bran, wheat middlings, linseed oil meal, corn gluten feed, cottonseed meal, soybean oil meal, hominy feed, ¾% salt. 1% calcite, beet pulp, molasses, corn gluten meal, corn distillers' grains.
	F.	24.08	3.31	55.62	7.49	9.50	6.86	
Kasco All Mash Chick Starter	G	17.00	4.00	55.00	....	....	6.00	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scrap, fish meal, bone meal, linseed oil meal, dried skim milk, dried whey, ½% salt, calcite, tested cod liver oil, alfalfa leaf meal, lactoflavin concentrate, soybean oil meal, pulverized oats, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 84 p. p. m. Mn.
	F.	18.60	4.47	59.62	7.43	9.88	5.23	
Kasco All Mash Grower	G.	14.00	4.00	55.00	....	....	7.00	Wheat red dog, pulverized oats, oat meal, wheat middlings, wheat bran, corn meal, meat scrap, fish meal, bone meal, linseed oil meal, soybean oil meal, dried skim milk, dried whey, lactoflavin concentrate, ½% salt, tested cod liver oil, calcite, alfalfa leaf meal.
	F.	16.19	4.59	61.49	7.09	10.64	6.04	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Kasco All Mash Laying and Breeding Ration	G.	15.00	4.00	55.00	....	....	6.50	Corn meal, pulverized oats, oat meal, wheat bran, wheat middlings, wheat red dog, linseed oil meal, soybean oil meal, ground barley, meat scrap, bone meal, fish meal, dried skim milk, dried whey, lactoflavin concentrate, ½% salt, calcite, tested cod liver oil, alfalfa leaf meal, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 76 p. p. m. Mn.
	F.	16.46	4.67	60.75	7.08	11.04	5.29	
Kasco Broiler Ration	G.	18.00	4.00	50.00	....	....	6.50	Wheat bran, wheat middlings, wheat red dog, linseed oil meal, corn gluten meal, corn meal, ground oat meal, pulverized oats, meat scrap, bone meal, alfalfa leaf meal, dried whey, lactoflavin concentrate, dried skim milk, tested cod liver oil, salt, calcite, soybean oil meal, fish meal, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 55 p. p. m. Mn.
	F.	20.31	4.36	58.95	7.06	9.32	5.59	
Kasco Fitting Ration	G.	14.00	4.00	55.00	....	....	8.00	Wheat bran, corn feed meal, hominy feed, ground barley, crushed oats, ground oats, linseed oil meal, soybean oil meal, cane molasses, bone meal, 1% salt, calcite.
	F.	16.46	3.79	62.75	5.98	11.02	6.06	
Kasco Laying and Breeding Mash	G.	20.00	4.00	50.00	....	....	7.50	Wheat bran, wheat middlings, wheat red dog, corn meal, linseed oil meal, soybean oil meal, pulverized oats, ground oat meal, meat scrap, bone meal, fish meal, dried skim milk, dried whey, lactoflavin concentrate, ¾% salt, calcite, tested cod liver oil, alfalfa leaf meal, .0125% manganese sulphate equivalent to 30 p. p. m. of manganese. Found 116 p. p. m. Mn.
	F.	21.19	4.59	55.74	9.27	9.21	6.20	

Kasco Open Formula 20% Dairy Ration	G.	20.00	3.50	50.00	....	....	10.00	250 lbs. wheat bran, 125 lbs. wheat middlings, 100 lbs. hominy feed, 150 lbs. ground barley, 50 lbs. ground oats, 100 lbs. malt sprouts, 150 lbs. dried brewers' grains, 350 lbs. corn gluten feed, 50 lbs. corn distillers' grains, 275 lbs. soybean oil meal, 100 lbs. 41% cottonseed meal, 250 lbs. cane molasses, 25 lbs. salt, 25 lbs. calcite.
	F.	21.75	3.53	58.49	7.60	8.63	7.67	
Kasco Poultry Flushing Mash	G.	17.00	3.50	55.00	....	....	6.00	Wheat red dog, oat meal, wheat middlings, wheat bran, corn meal, meat scrap, fish meal, bone meal, linseed oil meal, pulverized oats, dried whey, ½% salt, calcite, tested cod liver oil, alfalfa leaf meal, lactoflavin concentrate, soybean oil meal.
	F.	18.56	3.94	58.99	9.55	8.96	5.10	
Kasco Stock Feed	G.	9.00	5.00	60.00	....	....	10.00	White hominy, wheat red dog, oat mill feed (oat middlings, oat shorts, oat hulls), ½% salt.
	F.	11.90	4.78	70.10	4.02	9.20	5.27	
Kasco Sweet 16% Dairy Feed	G.	16.00	3.50	50.00	....	....	12.00	Wheat bran, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, ground oats, ground barley, ground wheat screenings, corn meal, oat mill feed, oat middlings, oat hulls, oat shorts, malt sprouts, dried brewers' grains, corn distillers' grains, molasses, 1% salt, 1% calcite.
	F.	16.94	3.31	61.92	7.26	10.57	8.80	
Kasco Turkey Grower	G.	20.00	4.00	50.00	....	....	8.00	Wheat bran, wheat middlings, linseed oil meal, corn meal, pulverized oats, meat scrap, bone meal, dried skim milk, dried whey, lactoflavin concentrate, fish meal, soybean oil meal, corn gluten meal, ½% salt, calcite, tested cod liver oil, alfalfa meal.
	F.	20.53	4.63	58.33	7.20	9.31	6.69	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Kellogg Company Battle Creek, Mich.							
Kellogg's Hominy Feed	G. 10.00	5.00	65.00	....	....	5.00	Made from pure white corn.
	F. 10.59	6.78	72.20	2.68	7.75	4.36	
Keystone Dairy Co. Brooklyn, N. Y.							
Skim Milk Powder	G. 32.00	0.75	....	....	....	....	Raw milk from which cream or fat and water have been removed and to which nothing has been added.
	F. 35.64	0.75	50.55	8.16	4.90	....	
Kraft-Phenix Corp. Chicago, Ill.							
Kraco Dried Cheese Whey	G. 12.00	0.50	70.00	....	....	....	Lactic acid 1.00 per cent.
	F. 13.27	0.64	72.15	9.03	4.91	....	
Charles A. Krause Milling Co. Milwaukee, Wis.							
Badger White Hominy Feed	G. 10.00	6.00	....	....	....	5.00	Made from white corn.
	F. 11.77	6.80	69.81	3.10	8.52	5.00	
Lake of the Woods Milling Co. Montreal, Canada							
Lakewoods Wheat Bran	G. 15.00	3.50	53.00	....	....	11.50	
	F. 17.51	5.48	61.26	5.63	10.12	10.84	
Lakewoods Wheat Shorts	G. 16.00	5.00	56.00	....	....	8.00	
	F. 18.69	5.46	59.98	4.56	11.31	7.78	

Larrowe Milling Co. **Detroit, Mich.**							
Larro Broiler Feed	G. 20.00 F. 21.40	3.50 4.52	54.50 56.87	.... 8.27	.... 8.94	7.00 5.51	Yellow corn meal, wheat standard middlings, corn gluten meal, alfalfa meal, wheat bran, meat and bone scraps, soybean oil meal, fish meal, ground oats, dried buttermilk, dried skim milk, dried whey, fortified cod liver oil, 2% limestone, ½% salt, .01% manganese dioxide equivalent to 63 p. p. m. manganese. Found 84 p. p. m. Mn.
Larro Chick Builder	G. 19.00 F. 21.14	4.00 4.57	53.00 54.50	.... 10.43	.... 9.36	7.00 6.05	Wheat bran, yellow corn meal, wheat standard middlings, ground barley, meat and bone scraps, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, dried skim milk, dried whey, ground oats, fortified cod liver oil, 2½% limestone, ½% salt, .01% manganese dioxide equivalent to 63 p. p. m. of manganese. Found 166 p p. m. Mn.
Larrowe's 16% Dairy Feed	G. 16.00 F. 16.55	3.00 3.48	63.00 65.03	.... 5.65	.... 9.29	11.00 10.29	Cottonseed meal, corn gluten feed, corn distillers' dried grains, wheat standard middlings, O. P. linseed oil meal, yellow corn meal, dried beet pulp, wheat bran, 1% salt.
Larro Egg Mash	G. 20.00 F. 21.36	4.00 4.97	52.50 55.01	.... 9.39	.... 9.27	7.50 6.08	Wheat bran, yellow corn meal, wheat standard middlings, ground barley, meat and bone scraps, soybean oil meal, fish meal, alfalfa meal, dried butter milk, dried skimmed milk, dried whey, ground oats, fortified cod liver oil, 2½% limestone, ½% salt, .01% manganese dioxide equivalent to 63 p. p. m. of manganese. Found 122 p. p. m. Mn.
Larro Pig and Hog Builder	G. 17.50 F. 19.17	4.00 4.49	56.50 58.59	.... 8.43	.... 9.32	7.50 6.08	Wheat bran, yellow corn meal, wheat standard middlings, fish meal, meat and bone scraps, O. P. linseed oil meal, soybean oil meal, alfalfa meal, dried beet pulp, 1¾% limestone, ¾% salt.

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
Larro, the Ready Ration	G.	20.00	3.75	57.00	....	....	12.00	Cottonseed meal, yellow corn meal, wheat standard middlings, soybean oil meal, O. P. linseed oil meal, corn gluten feed, corn distillers' dried grains, dried beet pulp, wheat bran, ½% limestone, 1% salt.
	F.	22.15	4.17	57.99	6.91	8.78	8.99	
Larro Turkey Finisher	G.	19.00	3.50	52.00	....	....	7.00	Yellow corn meal, wheat standard middlings, wheat bran, meat and bone scraps, soybean oil meal, ground barley, ground oats, dried butter milk, dried skimmed milk, dried whey, alfalfa meal, 2½% limestone, ½% salt.
	F.	20.40	4.53	55.79	10.36	8.92	6.11	
L. B. Lovitt & Co. Memphis, Tenn.								
Lovit Brand 41% Cottonseed Meal	G.	41.00	5.00	38.00	....	....	13.00	Cottonseed meal.
	F.	40.72	5.66	40.96	5.77	6.89	13.99	
Maine Fish Meal Co. Portland, Me.								
Maine Vitamin D Fish Meal Vacuum Produced	G.	55.00	10.00	....	....	....	1.00	
	F.	56.74	14.42	....	18.66	8.91	....	
Maple Leaf Milling Co. Toronto, Canada								
Maple Leaf Red Dog	G.	16.50	3.50	58.00	....	....	4.50	Made from wheat.
	F.	17.25	4.93	63.46	3.46	10.90	4.69	
Rex Wheat Bran with Screenings	G.	15.00	3.50	50.00	....	....	12.00	
	F.	14.04	4.09	65.50	5.81	10.56	10.09	
Rex Wheat Middlings with Screenings	G.	16.00	5.00	52.00	....	....	9.00	Screenings not exceeding mill run.
	F.	15.79	4.93	64.73	4.46	10.09	7.78	

Maritime Milling Co. Buffalo, N. Y.								
B-B Bull Brand 20 Dairy Ration	G.	20.00	4.00	55.00	....	....	9.00	Dried brewers' grains, corn distillers' grains, cottonseed meal, corn gluten feed, soybean oil meal, O. P. linseed oil meal, hominy feed, corn meal, wheat bran, wheat middlings (standard), molasses, steamed bone meal, calcium carbonate, salt, potassium iodide.
Sweetened	F.	21.01	4.05	59.74	6.36	8.84	7.56	
B-B Bull Brand 24 Dairy Ration	G.	24.00	4.00	50.00	....	....	9.00	Dried brewers' grains, corn distillers' grains, cottonseed meal, corn gluten feed, soybean oil meal, O. P. linseed meal, hominy feed, corn meal, wheat bran, wheat, standard middlings, molasses, steamed bone meal, calcium carbonate, salt, potassium iodide.
Sweetened	F.	23.64	**3.66**	55.48	8.08	9.11	8.36	
B-B Bull Brand Dry and Fresh Cow Fitting Ration	G.	13.00	4.00	65.00	....	....	9.00	Dried beet pulp, hominy feed, corn meal, alfalfa meal, soybean oil meal, crushed oats, wheat bran, O. P. linseed oil meal, corn gluten feed, molasses, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	13.49	**3.60**	66.67	5.86	10.38	9.46	
B-B Bull Brand Stock Feed Sweetened	G.	9.00	3.50	60.00	....	....	12.00	Hominy feed, corn feed meal, wheat bran, ground barley, ground oats, oat hulls, oat shorts, moalasses, salt.
	F.	11.21	4.86	70.92	4.01	9.00	9.19	
B-B Calf Meal	G.	22.00	4.00	53.00	....	....	5.00	Fortified cod liver oil, shark liver oil, irradiated brewers' yeast, kelp meal, dried skim milk, soluble blood flour, wheat red dog, wheat standard middlings, corn meal, O. P. linseed oil meal, soybean oil meal, oat flour, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	22.55	**3.37**	56.69	7.85	9.54	3.36	
B-B Complete Chick Starter Ration	G.	20.00	4.00	60.00	....	....	6.00	Fortified cod liver oil, kelp meal, dried cheese whey, dried buttermilk dehydrated alfalfa leaf meal, wheat standard middlings, wheat bran, ground wheat, corn gluten meal, corn meal, pulverized heavy oats, pulverized barley, soybean oil meal, ground oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide, manganese sulphate.
	F.	20.88	4.74	55.79	9.28	9.31	5.76	

Manufacturer / Brand		Pounds in 100 lbs. of Feeding Stuffs: Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
B-B Complete Laying Ration	G.	15.00	4.00	55.00	....	....	7.00	Fortified cod liver oil, dried cheese whey, dried butter milk, dehydrated alfalfa meal, wheat bran, wheat standard middlings, corn meal, pulverized heavy oats, pulverized barley, soybean oil meal, corn gluten meal, meat and bone meal, calcium carbonate, salt, potassium iodide, manganese sulphate.
	F.	16.02	4.38	61.05	8.29	10.26	6.27	
B-B Daisy Egg Mash	G.	20.00	3.50	55.00	....	....	9.00	Fortified cod liver oil, dried butter milk, alfalfa meal, wheat bran, wheat standard middlings, soybean oil meal, corn gluten meal, corn meal, pulverized barley, pulverized oats, meat and bone meal, fish meal, calcium carbonate, salt, manganese sulphate.
	F.	20.62	4.86	54.70	9.89	9.93	8.02	
B-B Daisy Horse Feed	G.	6.50	1.50	60.00	....	....	12.00	Cracked corn, oats, molasses, alfalfa meal, oat hulls, shorts, calcium carbonate, salt.
	F.	10.77	3.18	68.32	6.98	10.75	8.99	
B-B Growing Mash	G.	15.00	4.00	55.00	....	....	8.00	Fortified cod liver oil, dried cheese whey, dried buttermilk, dehydrated alfalfa leaf meal, wheat bran, wheat standard middlings, ground wheat, corn meal, pulverized heavy oats, pulverized barley, ground oat meal, soybean oil meal, corn gluten meal, meat and bone meal, fish meal, calcuim carbonate, salt, potassium iodide, manganese sulphate.
	F.	18.82	4.79	58.90	8.30	9.19	6.62	
B-B Hi-Test Dairy Feed 20% Sweetened	G.	20.00	4.00	50.00	....	....	12.00	Dried brewers' grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, ground oats, corn meal, cleaned, pulverized and bolted screenings from wheat, oats, and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
	F.	22.33	4.23	57.23	6.79	9.42	9.88	

B-B Hi-Test Dairy Feed Sweetened..	G. 24.00	4.00	50.00	....	....	12.00	Dried brewers' grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, corn meal, ground oats, cleaned, pulverized and bolted screenings from wheat, oats, and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
	F. 25.74	4.09	52.57	8.20	9.40	8.60	
B-B Horse Feed	G. 8.00	2.00	65.00	....	....	10.00	Molasses, cracked corn, crushed oats, alfalfa meal, O. P. linseed oil meal, calcium carbonate, salt.
	F. 11.38	3.49	70.80	3.94	10.39	9.90	
B-B Layer and Breeder Mash	G. 20.00	4.50	50.00	....	....	7.00	Fortified cod liver oil, liver meal, kelp meal, dried cheese whey, dried buttermilk, dehydrated alfalfa leaf meal, wheat bran, wheat standard, middlings, soybean oil meal, corn gluten meal, corn meal, pulverized heavy oats, pulverized barley, ground oat meal, meat and bone meal, fish meal, calcium carbonate, salt, potassium iodide, manganese sulphate.
	F. 19.29	4.88	54.36	11.64	9.83	6.19	
B-B Marmico Dairy Feed with Molasses	G. 16.00	4.00	58.00	....	....	12.00	Dried brewers' grains, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, cleaned, pulverized and bolted screenings from wheat, oats, and barley, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
	F. 19.92	4.25	56.92	9.19	9.72	9.85	
Dollar Maker Egg Mash	G. 19.00	3.50	50.00	....	....	10.00	Dried buttermilk, cod liver oil, alfalfa meal, wheat bran, wheat standard middlings, soybean oil meal, corn meal, pulverized barley, pulverized oats, meat and bone meal, calcium carbonate, salt, manganese sulphate.
	F. 19.70	4.30	55.84	10.85	9.31	8.43	
Merrimack Farmers' Exchange Concord, N. H.							
Merrimack All Mash	G. 15.00	4.00	60.00	....	....	6.00	Ground oats, cracked wheat, corn meal, wheat bran, soybean oil meal, oat groats, alfalfa leaf meal, meat scraps, fish meal, dried skim milk, calcium carbonate, steamed bone meal, salt, tested oil.
	F. 16.81	4.39	61.53	6.72	10.55	4.78	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Merrimack Calf Meal	G. 20.00 F. 23.86	4.50 5.65	55.00 56.47	.... 4.42	.... 9.60	5.00 4.51	Tested oil, soybean oil meal, oat groats, linseed oil meal, red dog, hominy, dried blood, fish meal, dried milk, anise, fenugreek.
Merrimack Chick Starter	G. 16.00 F. 17.78	4.00 4.69	50.00 60.05	.... 7.62	.... 9.86	4.00 3.69	Soybean oil meal, corn meal, fine cracked corn, wheat flour middlings, wheat standard middlings, wheat bran, cracked wheat, meat scraps, fish meal, ground oat groats, cut oat groats, dried skimmed milk, steamed bone meal, alfalfa leaf meal, salt, calcium carbonate, tested oil.
Merrimack Dairy Ration	G. 20.00 F. 21.36	4.50 4.31	50.00 56.69	.... 8.78	.... 8.86	10.00 8.34	Corn gluten feed, cottonseed meal, brewers' dried grains, corn meal, soybean oil meal, linseed oil meal, wheat bran, wheat standard middlings, ground oats, steamed bone meal, calcium carbonate, distillers' dried grain, salt.
Merrimack Eureka Dairy	G. 20.00 F. 20.53	4.00 3.53	55.00 58.99	.... 7.88	.... 9.07	11.00 9.44	Oat feed, gluten meal, corn meal, cottonseed bran, gluten feed, soybean oil meal, molasses, salt, calcium carbonate.
Merrimack Fitting Ration	G. 14.00 F. 15.85	4.50 4.71	60.00 61.32	.... 8.26	.... 9.86	8.00 7.06	Soybean oil meal, ground oats, corn meal, wheat bran, linseed oil meal, cane molasses, calcium carbonate, steamed bone meal, salt, tested oil.

Merrimack Growing Mash	G.	17.00	4.25	50.00	....	....	5.00	Soybean oil meal, corn meal, wheat bran, wheat flour middlings, wheat standard middlings, ground oat groats, alfalfa leaf meal, ground oats, fish meal, dried skimmed milk, meat scraps, steamed bone meal, calcium carbonate, salt, tested oil.
	F.	19.44	5.07	55.46	9.49	10.54	4.85	
Merrimack Heavy Wheat Feed	G.	15.00	4.00	55.00	....	....	9.00	Bran, second clear flour.
	F.	16.29	4.59	64.35	4.65	10.12	7.94	
Merrimack Horse Feed	G.	11.00	3.75	63.00	....	....	6.25	Whole oats, yellow cracked corn, wheat bran, linseed oil meal, cane molasses, calcium carbonate, salt.
	F.	12.17	3.57	67.32	5.34	11.60	6.25	
Merrimack Laying Mash	G.	18.00	4.25	50.00	....	....	5.00	Soybean oil meal, corn meal, wheat bran, wheat flour middlings, wheat standard middlings, ground oat groats, fish meal, alfalfa leaf meal, ground oats, dried skim milk, meat scraps, steamed bone meal, calcium carbonate, salt, tested oil.
	F.	18.87	5.08	56.14	9.70	10.21	4.81	
Merrimack Milk Ration Sweetened	G.	20.00	4.00	53.00	....	....	8.50	Wheat bran, wheat standard middlings, corn gluten feed, corn gluten meal, linseed oil meal, soybean oil meal, cottonseed meal, ground oats, corn meal, brewers' dried grain, cane molasses, steamed bone meal, distillers' grain, calcium carbonate, salt.
	F.	21.23	4.00	57.58	7.73	9.46	7.81	
Merrimack Pig Ration	G.	17.00	5.00	55.00	....	....	7.00	Wheat standard middlings, wheat bran, hominy feed, corn meal, meat scraps, fish meal, wheat red dog, salt, calcium carbonate, charcoal, tested oil.
	F.	17.69	5.60	58.86	8.21	9.64	6.57	
Merrimack Special Mash	G.	18.00	5.00	50.00	....	....	8.00	Soybean oil meal, wheat standard middlings, corn meal, alfalfa leaf meal, wheat bran, ground oats, meat scraps, fish meal, calcium carbonate, salt, tested oil.
	F.	19.79	5.66	53.87	9.97	10.71	5.34	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Merrimack Stock Feed	G. 9.00 F. 11.64	4.00 4.09	60.00 69.08	.... 6.38	.... 8.81	11.00 11.26	Cane molasses, soybean oil meal, hominy feed, oat mill feed, ground oats, salt, calcium carbonate, linseed oil meal, ground barley.
Merrimack Super Mash	G. 18.00 F. 20.53	5.00 5.42	50.00 55.99	.... 8.74	.... 9.32	5.00 4.92	Corn meal, soybean oil meal, ground oat groats, wheat flour middlings, wheat standard middlings, wheat bran, meat scraps, fish meal, dried skimmed milk, alfalfa leaf meal, steamed bone meal, calcium carbonate, salt, tested oil.
George Q. Moon & Co. Binghamton, N. Y.							
Fitting Ration	G. 13.00 F. 14.75	3.00 4.20	56.00 62.86	.... 6.76	.... 11.43	9.00 6.17	Linseed oil meal, soybean oil meal, corn meal, ground oats, ground barley, wheat bran (with ground screenings not to exceed mill run), molasses, calcium carbonate, salt, bone meal.
Moon's Hominy Feed	G. 10.00 F. 10.33	5.00 8.26	65.00 69.24	.... 2.78	.... 9.39	6.00 5.99	Hominy feed.
Moon's Stock Feed	G. 9.00 F. 10.63	3.00 4.72	56.00 70.91	.... 5.16	.... 8.58	12.00 13.10	Hominy feed, corn meal, ground barley, ground oats, reground oat hulls, oat shorts, oat middlings, ½% salt, standard middlings.
Special A Dairy 20% Ration	G 20.00 F. 23.20	4.00 4.21	45.00 56.07	.... 7.16	.... 9.36	10.00 7.51	Corn gluten feed, corn distillers' grains, rye distillers' grains, cottonseed meal, O. P. linseed oil meal, wheat bran (with ground screenings not to exceed mill run), soybean oil meal, peanut oil meal, hominy feed, calcium carbonate, salt, molasses, babassu meal, palm kernel meal.

U. S. 20% Dairy Ration	G. 20.00	4.00	47.00	....	....	12.00	Tucum meal, corn gluten feed, soybean oil meal, peanut oil meal, wheat bran (with ground screenings not to exceed mill run), ground and bolted clipped oat by-product, alfalfa meal, cottonseed meal, rye distillers' grains, corn distillers' grains, calcium carbonate, ground screenings from wheat, salt, molasses, ground barley, murumuru meal, palm kernel meal.
	F. 20.40	3.79	60.41	7.34	8.06	11.25	
James F. Morse & Co. Somerville, Mass.							
Morse's 45% Meat Scraps	G. 45.00	8.00	....	....	....	....	
	F. 45.88	9.47	....	36.28	5.72	....	
Morse's 50% Meat Scraps	G. 50.00	8.00	....	....	....	....	
	F. 52.54	9.86	....	28.87	5.82	....	
National Distillers Products Corp. New York, N. Y.							
Produlac Brand Dried Corn Distillers' Grains	G. 27.00	8.00	53.00	....	....	9.00	A concentrate of spent distillers' corn grains dried by an improved process which preserves biological values and contains yeast and lactic acid; has effective potency of vitamins G and B, and useful amounts of A and E.
	F. 28.19	8.39	54.61	4.24	4.57	8.61	
National Feeds Co. Baltimore, Md.							
National Red Dog	G. 15.00	3.00	....	....	....	4.00	Wheat, rye.
	F. 18.21	2.64	67.83	2.01	9.31	2.28	
Neumond Co. St. Louis, Mo.							
Neumond Dried Brewers' Grains	G. 24.00	4.50	58.00	....	....	18.00	Made from barley.
	F. 28.23	6.85	52.48	2.99	9.45	13.24	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
New England Grain Co. Portland, Me.							
New England 25% Dairy Feed	G. 25.00	5.50	60.00	....	....	10.00	Cottonseed meal, corn gluten feed, old process linseed oil meal, pure wheat bran, wheat middlings, corn distillers' dried grains, corn meal or hominy, ground oats, fish meal, molasses, shell flour, salt.
	F. 26.66	**4.64**	52.10	7.92	8.68	8.17	
New England Economy 20% Dairy Feed	G. 20.00	4.00	45.00	....	....	10.50	Gluten feed, cottonseed meal, wheat bran, wheat middlings, soybean meal, oat by-products, linseed oil meal, dried distillers' grains, corn meal, molasses, salt.
	F. 22.81	3.83	57.80	7.71	7.85	**14.37**	
New England Open Formula 20% Dairy Feed	G. 20.00	5.00	55.00	....	....	8.50	200 lbs. linseed oil meal, 300 lbs. corn distillers' dried grains, 100 lbs. gluten feed, 100 lbs. gluten meal, 300 lbs. pure wheat bran, 140 lbs. corn meal, 300 lbs. choice cottonseed meal, 100 lbs. wheat middlings, 200 lbs. ground oats, 200 lbs. cane molasses, 20 lbs. cattle bone meal, 20 lbs. salt, 20 lbs. calcium carbonate.
	F. 22.37	**4.53**	57.03	7.37	8.70	7.84	
3 in 1 Mash, Starting, Growing and Laying	G. 17.00	5.00	55.00	....	....	6.00	Fortified cod liver oil, cod liver meal, dried milk, feeding oatmeal, alfalfa leaf meal, fish meal, meat meal, flour middlings, pure wheat bran, ground corn, shell flour, ground wheat, molasses, salt.
	F. 18.43	6.34	58.76	6.69	9.78	5.43	
North East Feed Mill Co. Minneapolis, Minn.							
North East Quality Feeding Oat Meal	G. 15.00	4.00	63.75	....	....	3.75	White oats.
	F. 15.24	3.88	68.93	2.10	9.85	3.26	

Ogden Grain Co. **Utica, N. Y.**							
Biddy Laying Mash	G. 20.00	4.00	50.00	....	....	7.00	Alfalfa meal, pulverized oats, meal scraps, fish meal, dried skim milk, soybean oil meal, corn meal, ground wheat, wheat bran, wheat middlings (may contain mill run screenings), salt, oyster shell meal, cod liver oil, potassium iodide.
	F. 20.75	5.66	55.46	8.69	9.44	6.77	
Pilgrim Cackle 20% Layer-Breeder	G. 20.00	4.00	55.00	....	....	8.00	Dried skim milk, alfalfa meal, pulverized oats, meat scraps, fish meal, gluten meal, corn meal, soybean oil meal, wheat bran, wheat middlings, oyster shell meal, cod liver oil, salt, potassium iodide, vitadine.
	F. 21.19	5.22	55.98	8.02	9.59	5.98	
Pilgrim Chick Starter	G. 18.00	4.00	55.00	....	....	6.00	Alfalfa leaf meal, fish meal, meat meal, dried skim milk, corn meal, wheat bran, wheat middlings, gluten meal, flour middlings, pulverized oats, soybean oil meal, cod liver oil, potassium iodide, calcium carbonate, salt, vitadine.
	F. 19.04	4.23	59.90	8.01	8.82	5.56	
Pilgrim Growing Mash	G. 16.00	4.00	55.00	....	....	8.00	Alfalfa meal, dried skim milk, meat scraps, fish meal, wheat middlings, wheat bran, pulverized oats, corn meal, oyster shell meal, salt, cod liver oil, potassium iodide.
	F. 16.99	5.56	59.70	8.66	9.09	6.48	
Pilgrim Starter and Broiler Ration	G. 18.00	4.00	55.00	....	....	6.00	Corn meal, gluten meal, soybean oil meal, alfalfa leaf meal, fine ground oats, meat scraps, fish meal, wheat bran, standard middlings, red dog middlings, dried skim milk, cod liver oil, oyster shell meal, salt, potassium iodide.
	F. 20.01	4.63	57.69	8.43	9.24	5.42	
Ogilvie Flour Mills Co. **Montreal, Canada**							
Ogilvie Wheat Bran	G. 15.00	3.50	50.00	....	....	11.50	
	F. 16.72	5.42	61.78	6.02	10.06	11.16	
Ogilvie Wheat Shorts	G. 16.00	5.00	54.00	....	....	8.00	
	F. 19.26	5.58	60.13	5.03	10.00	7.88	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	
Omar, Inc. **Omaha, Neb.**							
Omar Pure Wheat Bran	G. 15.00 F. 18.17	3.00 4.62	50.00 62.21	.... 6.40	.... 8.60	11.00 9.46	Pure wheat bran.
Park & Pollard Co. **Boston, Mass.**							
Bidwell 20% Dairy Ration	G. 20.00 F. 20.31	3.50 3.33	58.00 57.78	.... 9.57	.... 9.01	12.00 11.28	Wheat bran, linseed oil meal, malt sprouts, gluten feed, ground oats, gluten meal, brewers' dried grains, soybean oil meal, ground barley, cottonseed meal, ground grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
Bidwell Growing Feed	G. 15.00 F. 17.38	3.00 3.57	50.00 62.90	.... 7.62	.... 8.53	7.00 7.78	Dried buttermilk, corn meal, alfalfa meal, ground oats, ground wheat, meat, bone, corn gluten meal, ground buckwheat, wheat bran (may contain mill run wheat screenings), wheat middlings, soybean oil meal, ground barley, fish meal, calcium carbonate, salt, manganese sulphate, vitamin tested cod liver oil.
Bidwell Laying Mash	G. 18.00 F. 18.12	3.00 3.42	50.00 60.74	.... 8.53	.... 9.19	8.00 6.72	Dried buttermilk, alfalfa meal, corn meal, ground oats, ground barley, wheat bran (may contain mill run wheat screenings), wheat middlings, fish meal, meat and bone meal, linseed oil meal, corn gluten meal, soybean oil meal, calcium carbonate, manganese sulphate, vitamin tested cod liver oil.

Doublex 16% Dairy Ration	G.	16.00	3.50	50.00	....	....	12.00	Corn distillers' grains, ground oats, ground barley, brewers' dried grains, malt sprouts, linseed oil meal, cottonseed meal, ground grain screenings from wheat, oats, barley, buckwheat and milo, soybean oil meal, corn gluten feed, molasses, calcium carbonate, salt.
	F.	19.00	3.36	58.64	9.68	9.32	10.64	
Doublex 20% Dairy Ration	G.	20.00	3.50	50.00	....	....	11.00	Linseed oil meal, corn gluten feed, brewers' dried grains, ground oats, corn gluten meal, soybean oil meal, corn distillers' grains, ground barley, wheat bran, malt sprouts, cottonseed meal, ground grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
	F.	24.08	3.72	53.71	9.42	9.07	9.37	
Doublex 24% Dairy Ration	G	24.00	3.50	55.00	....	....	11.00	Wheat bran, linseed oil meal, brewers' dried grains, soybean oil meal, ground oats, malt sprouts, corn gluten meal, corn gluten feed, cottonseed meal, ground grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
	F.	25.87	3.78	51.72	9.85	8.78	8.78	
Go-To-It Pig and Hog Ration	G.	15.00	3.00	50.00	....	....	8.00	Alfalfa meal, hominy meal, ground barley, fish meal, meat, bone, corn meal, wheat middlings, calcium carbonate, salt.
	F.	16.37	3.69	60.42	9.76	9.76	6.58	
Lay or Bust Dry Mash	G	20.00	3.00	50.00	....	....	7.00	Dried buttermilk, alfalfa, leaf meal, corn gluten meal, fish meal, ground yellow corn, ground barley, meat scrap, ground wheat, linseed oil meal, ground oats, soybean oil meal, wheat bran (may contain mill run screenings), wheat middlings, calcium carbonate, salt, manganese sulphate, vitamin tested cod liver oil.
	F.	23.60	4.38	54.75	8.34	8.93	6.51	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Manamar Lay or Bust Dry Mash	G.	20.00	3.00	50.00	....	....	7.00	Kelp, Pacific coast fish meal, marine sea shells, dried buttermilk, alfalfa leaf meal, corn gluten meal, meat scrap, ground yellow corn, ground barley, linseed oil meal, ground oats, soybean oil meal, wheat bran (may contain mill run wheat screenings), wheat middlings, calcium carbonate, salt, manganese sulphate, vitamin tested cod liver oil.
	F.	21.01	3.84	55.92	9.84	9.39	5.94	
Manamar Life Cycle Mash	G.	16.00	3.50	55.00	....	....	7.00	Kelp, Pacific coast fish meal, marine sea shells, meat scrap, wheat bran (may contain mill run wheat screenings), wheat middlings, ground yellow corn, soybean oil meal, ground oats, ground barley, alfalfa leaf meal, corn gluten meal, dried buttermilk, manganese sulphate, vitamin tested cod liver oil.
	F.	18.65	4.41	58.65	9.67	8.62	6.74	
Milkmaid 20% Dairy Ration	G.	20.00	4.00	55.00	....	....	10.00	Corn gluten feed, linseed oil meal, cottonseed meal, ground barley, corn distillers' dried grains, soybean oil meal, ground oats, wheat bran, brewers' dried grains, malt sprouts, corn gluten meal, corn meal, cane molasses, calcium carbonate, salt.
	F.	20.05	4.46	60.11	6.99	8.39	7.33	
Milkmaid 24% Sweetened Dairy Ration	G.	24.00	4.00	50.00	....	....	10.00	Corn gluten feed, linseed oil meal, cottonseed meal, ground barley, corn distillers' dried grains, soybean oil meal, wheat bran, brewers' dried grains, malt sprouts, corn gluten meal, corn meal, molasses, calcium carbonate, salt.
	F.	25.57	4.30	53.92	7.96	8.25	7.18	

Park & Pollard All-Mash Growing Feed	G.	14.50	4.00	55.00	....	....	7.00	Yellow corn meal, dried buttermilk, ground oats, alfalfa leaf meal, ground barley, corn gluten meal, meat scrap, wheat bran (may contain mill run wheat screenings), wheat middlings, fish meal, soybean oil meal, calcium carbonate, salt, manganese sulphate, vitamin tested cod liver oil.
	F.	15.45	**3.52**	63.91	7.63	9.49	5.57	
Park & Pollard All-Mash Laying Ration	G.	15.00	4.00	55.00	....	....	7.00	Yellow corn meal, dried buttermilk, ground oats, alfalfa leaf meal, ground barley, corn gluten meal, meat scrap, wheat bran (may contain mill run wheat screenings), wheat middlings, fish meal, calcium carbonate, soybean oil meal, salt, manganese sulphate, vitamin tested cod liver oil.
	F.	16.81	**3.49**	62.66	7.91	9.13	5.79	
Park & Pollard Broiler Finishing Mash	G.	15.00	4.00	60.00	....	....	6.00	Yellow corn meal, corn gluten meal, wheat bran, wheat flour middlings, pulverized oats, dehydrated alfalfa leaf meal, meat scrap, dried buttermilk, calcium carbonate, salt, manganese sulphate, vitamin tested cod liver oil.
	F.	17.20	4.04	62.36	7.92	8.48	4.87	
Park & Pollard Fitting Ration	G.	12.00	3.00	....	....	....	8.00	Corn meal, hominy, ground barley, wheat bran, crushed oats, soybean meal, molasses, calcium carbonate, salt.
	F.	12.96	3.00	64.94	6.69	12.41	5.91	
Park & Pollard Growing Feed	G.	16.00	3.00	50.00	....	....	7.00	Dried buttermilk, alfalfa leaf meal, fish meal, linseed oil meal, ground yellow corn, ground barley, meat scrap, wheat bran (may contain mill run wheat screenings), wheat middlings, ground oats, corn gluten meal, calcium carbonate, salt, manganese sulphate, vitamin tested cod liver oil.
	F.	17.86	4.10	60.18	8.76	9.10	6.54	
Park & Pollard Manamar Fitting Ration	G.	12.00	3.50	55.00	....	....	7.00	Kelp, Pacific coast fish meal, marine sea shells, linseed oil meal, ground oats, corn meal, ground barley, wheat bran, molasses, calcium carbonate, cracked corn, crushed oats, salt.
	F.	12.82	**3.19**	66.91	6.68	10.40	6.80	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Park & Pollard Milkade Calf Meal ..	G. 20.00 F. 26.14	5.00 4.44	50.00 52.28	.... 8.05	.... 9.09	6.50 5.79	Kelp, Pacific coast fish meal, marine sea shells, ground malt, old process linseed oil meal, hominy, wheat bran, wheat flour, 1% bone meal, wheat middlings, soybean oil meal, 3% blood flour, calcium carbonate, ground fenugreek, ground anise, salt.
Park & Pollard 32% Mixing Ration..	G. 32.00 F. 33.84	4.00 4.74	40.00 40.58	.... 11.56	.... 9.28	9.00 6.10	Linseed oil meal, cottonseed meal, wheat bran, corn gluten feed, soybean oil meal, corn gluten meal, malt sprouts, molasses, calcium carbonate, salt.
Park & Pollard Starter and Broiler Mash	G. 18.00 F. 17.77	4.00 4.11	50.00 58.61	.... 9.33	.... 10.18	6.00 5.52	Ground yellow corn, wheat bran, wheat flour middlings, pulverized oats, ground barley, fish meal, meat scrap, corn gluten meal, soybean oil meal, alfalfa leaf meal, calcium carbonate, manganese sulphate, salt, dried skim milk, vitamin tested cod liver oil.
Park & Pollard Stock Feed	G. 9.00 F. 10.63	4.00 3.09	50.00 69.93	.... 7.56	.... 8.79	12.00 11.24	Ground barley, ground corn, ground oats, hominy feed, oat hulls, oat middlings, oat shorts, molasses, calcium carbonate, salt.
Park & Pollard Turkey Grower	G. 20.00 F. 21.89	4.00 4.18	55.00 54.52	.... 10.41	.... 9.00	7.00 5.99	Yellow corn meal, ground barley, dehydrated alfalfa leaf meal, ground oats, meat scrap, wheat bran, wheat middlings, corn gluten meal, soybean oil meal, dried buttermilk, dried skim milk, calcium carbonate, salt, manganese sulphate, vitamin tested cod liver oil.

Parrish & Heimbecker Toronto, Canada								
Parrheim Pure Wheat Bran	G.	15.00	3.50	51.00	....	....	11.50	
	F.	16.20	4.64	62.24	4.74	12.18	8.82	
Parrheim Wheat Shorts	G.	16.00	5.00	52.00	....	....	8.00	
	F.	18.56	5.73	61.46	4.39	9.86	7.38	
Penick & Ford Cedar Rapids, Iowa								
Douglas Corn Gluten Feed	G.	25.00	1.50	55.50	....	....	8.50	Corn gluten feed.
	F.	27.36	2.25	55.76	6.86	7.77	7.68	
Perkins Oil Co. Memphis, Tenn.								
Golden Rod Brand Cottonseed Meal ..	G.	41.00	5.00	37.00	....	....	12.00	Made from pressed cottonseed.
	F.	41.02	5.19	40.68	5.57	7.54	10.55	
Pillsbury Flour Mills Co. Minneapolis, Minn.								
Pillsbury's XX Daisy	G.	16.00	4.00	62.00	....	....	4.00	Wheat red dog.
	F.	19.00	4.70	61.89	3.72	10.69	3.76	
Pillsbury's Fancy Wheat Mixed Feed..	G.	15.00	4.00	63.50	....	....	8.50	Wheat red dog, hard wheat bran with ground cleaned wheat screenings not exceeding mill run.
	F.	19.74	5.11	60.58	4.36	10.21	6.59	
Pillsbury's Hard Wheat Bran	G.	14.00	4.00	63.00	....	....	12.00	Hard wheat bran, ground cleaned wheat screenings not exceeding mill run.
	F.	17.77	5.06	61.47	5.89	9.81	10.14	
Pillsbury's Hard Wheat A Middlings..	G.	16.00	4.00	62.00	....	....	6.00	Wheat red dog, hard wheat standard B middlings with cleaned wheat screenings not exceeding mill run.
	F.	17.86	4.33	63.17	3.46	11.18	4.67	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Pillsbury's Hard Wheat Standard B Middlings	G. 15.00	4.00	62.50	....	....	9.50	Hard wheat standard middlings and ground cleaned wheat screenings not exceeding mill run.
	F. 16.07	4.60	63.98	4.82	10.53	9.09	
R. C. Pratt Toronto, Canada							
Ruler Brand Pure Wheat Shorts	G. 15.00	3.50	52.00	....	....	10.50	
	F. 18.56	5.76	60.95	4.83	9.90	8.16	
Purina Mills St. Louis, Mo.							
Protena 20% Dairy Feed	G. 20.00	3.50	50.00	....	....	12.00	Soybean oil meal, cottonseed meal, corn gluten feed, wheat middlings (standard), alfalfa meal, wheat bran, ground grain screenings from wheat, corn, oats, barley, kafir, molasses, 2% calcium carbonate (limestone), 1% iodized salt.
	F. 22.33	3.80	56.17	8.19	9.51	8.66	
Protena 24% Dairy Feed	G. 24.00	3.50	50.00	....	....	12.00	Soybean oil meal, cottonseed meal, alfalfa meal, corn gluten feed, wheat standard middlings, wheat bran, molasses, 2% calcium carbonate (limestone), 1% iodized salt.
	F. 26.92	4.00	50.76	8.63	9.69	8.52	
Protena Laying Mash	G. 18.00	3.50	52.50	....	....	8.50	Meat scrap, soybean oil meal, linseed meal, corn meal, dried buttermilk, cod liver oil, sardine oil, alfalfa meal, wheat middlings (standard), wheat bran, 4% calcium carbonate (limestone), 1% salt.
	F. 19.44	5.25	54.85	10.03	10.43	7.64	

Purina Breeder Lay Chow	G.	21.00	4.00	50.00	....	....	8.00	Flavin concentrate, carotene, cod liver oil, sardine oil, meat scrap, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, dried whey, corn germ meal, wheat middlings (standard), wheat bran, corn meal, ground oats, 1% iodized salt, 3% calcium carbonate (limestone).
	F.	22.64	5.32	53.15	9.95	8.94	6.84	
Purina Broiler Chow	G.	18.00	3.50	53.00	....	....	7.00	Flavin concentrate, carotene, cod liver oil, sardine oil, meat scrap, fish meal, soybean oil meal, dried buttermilk, dried whey, alfalfa leaf meal, corn meal, ground oats, wheat middlings (standard), wheat bran, alfalfa meal, 1½% calcium carbonate (limestone), ½% iodized salt.
	F.	21.67	4.54	57.72	6.72	9.35	6.57	
Purina Bulky Las Chow	G.	9.00	1.30	67.00	....	....	15.00	Dried beet pulp, wheat bran, molasses, wheat middlings (standard), alfalfa meal, 2% calcium carbonate (limestone), 2% iodized salt.
	F.	12.73	2.37	65.66	9.90	9.34	13.00	
Purina Chick Growing Chow	G.	21.00	3.50	51.00	....	....	7.00	Flavin concentrate, carotene, cod liver oil, sardine oil, meat scrap, fish meal, soybean oil meal, wheat germ, dried buttermilk, dried whey, corn germ meal, wheat middlings (grey), wheat bran, alfalfa meal, corn meal, 3% calcium carbonate (limestone), 1% iodized salt.
	F.	23.56	4.76	53.53	8.94	9.21	6.17	
Purina Chicken Fatena	G.	14.00	3.50	61.50	....	....	7.50	Ground oats, corn meal, ground barley, corn germ meal, wheat flour (second clear), wheat middlings (grey), meat scrap, rolled oats, ½% iodized salt.
	F.	18.30	3.74	63.89	3.78	10.29	6.74	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	
Purina Cow Chow 20%	G.	20.00	4.00	54.00	....	....	10.00	Soybean oil meal, corn gluten feed, linseed meal, crushed oats, cottonseed meal, distillers' corn dried grains, wheat middlings (standard), wheat bran, corn meal, alfalfa meal, molasses, 1% steamed bone meal, (tricalcium phosphate), 1% salt, (sodium chloride), 1% limestone (calcium carbonate), potassium iodide 0.17 grams per 100 pounds of feed.
	F.	21.80	4.63	57.40	7.03	9.14	6.19	
Purina Cow Chow 24%	G.	24.00	4.00	49.00	....	....	11.00	Soybean oil meal, corn gluten feed, linseed meal, cottonseed meal, distillers' corn dried grains, wheat middlings (standard), wheat bran, corn meal, alfalfa meal, molasses, minerals: 1% steamed bone meal (tricalcium phosphate), 1% salt (sodium chloride), 1% limestone (calcium carbonate), potassium iodide 0.17 grams per 100 pounds of feed.
	F.	26.48	4.73	53.28	7.42	8.09	7.45	
Purina Cow Chow 34%	G.	34.00	4.00	40.00	....	....	11.00	Soybean oil meal, corn gluten meal, cottonseed meal, linseed meal, alfalfa meal, molasses, 1% steamed bone meal (tricalcium phosphate), 2% salt (sodium chloride), 2% limestone (calcium carbonate), potassium iodide 0.35 grams per 100 pounds of feed.
	F.	37.04	4.10	40.32	10.19	8.35	7.11	
Purina Dry and Freshening Chow ...	G.	12.50	2.50	59.00	....	....	14.00	Flavin concentrate, carotene, soybean oil meal, crushed oats, dried beet pulp, corn meal, alfalfa meal, wheat bran, molasses, 2% calcium carbonate (limestone), 2% iodized salt.
	F.	14.75	2.93	62.10	9.99	10.23	12.39	

Purina Egg Chow	G. 15.50 F. 17.60	3.50 4.34	55.00 58.53	.... 9.89	.... 9.64	8.00 6.62	Carotene, cod liver oil, sardine oil, meat scrap, ground oats, fish meal, soybean oil meal, alfalfa meal, dried buttermilk, dried whey, wheat bran, wheat middlings (standard), beet pulp, corn meal, ground barley, corn gluten feed, ½% iodized salt, 4% calcium carbonate (limestone).
Purina Lay Chow	G. 21.00 F. 22.72	4.00 4.94	50.00 53.79	.... 9.56	.... 8.99	8.00 7.35	Carotene, cod liver oil, sardine oil, meat scrap, soybean oil meal, fish meal, alfalfa meal, dried buttermilk, dried whey, corn gluten feed, wheat middlings (standard), wheat bran, corn meal, ground oats, 1% iodized salt, 3% calcium carbonate (limestone).
Purina Layena	G. 15.50 F. 18.56	3.50 4.38	55.00 59.90	.... 8.06	.... 9.10	8.00 5.71	Flavin concentrate, carotene, cod liver oil, sardine oil, meat scrap, ground oats, fish meal, soybean oil meal, alfalfa meal, dried buttermilk, dried whey, wheat middlings (standard), beet pulp, corn meal, ½% iodized salt, 4% calcium carbonate (limestone).
Purina Milk Chow 20%	G. 20.00 F. 22.02	3.50 4.12	54.00 56.53	.... 7.57	.... 9.76	11.00 7.80	Soybean oil meal, corn gluten feed, crushed oats, cottonseed meal, distillers' corn dried grains, wheat middlings (standard), wheat bran, corn meal, alfalfa meal, molasses, 2% calcium carbonate (limestone), 1% iodized salt.
Purina Milk Chow 24%	G. 24.00 F. 26.70	3.50 3.97	49.00 50.41	.... 9.06	.... 9.86	11.00 7.71	Soybean oil meal, corn gluten feed, cottonseed meal, distillers' corn dried grains, wheat middlings (standard), wheat bran, corn meal, alfalfa meal, molasses, 2% calcium carbonate (limestone), 1% iodized salt.

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Purina Omolene	G. 10.00 F. 11.29	3.20 3.43	67.00 70.98	.... 3.86	.... 10.44	11.00 7.41	Crushed oats, cracked corn, alfalfa meal, linseed meal, molasses, wheat bran, 1% calcium carbonate (limestone), ½% iodized salt.
Purina Turkey Growena	G. 18.00 F. 18.65	4.00 4.32	57.00 60.32	.... 7.41	.... 9.30	7.00 6.00	Flavin concentrate, carotene, meat scrap, soybean oil meal, alfalfa meal, dried buttermilk, dried whey, ground oats, corn meal, wheat middlings (grey), wheat bran, corn gluten meal, 1.5% calcium carbonate (limestone), ½% iodized salt.
Quaker Oats Co. Chicago, Ill.							
Bell Cow Wheat Bran	G. 15.00 F. 17.03	3.50 5.29	67.00 62.40	.... 5.40	.... 9.88	10.00 9.61	Wheat bran.
Bell Cow Wheat Shorts	G. 15.00 F. 18.52	4.00 4.41	65.00 63.61	.... 3.74	.... 9.72	8.00 5.78	Wheat shorts.
Peterborough Oat Feed	G. 4.00 F. 4.16	1.50 1.50	79.00 82.12	.... 5.84	.... 6.38	32.00 30.68	Oat mill feed (oat hulls, oat shorts, oat middlings).
Quaker 20% Dairy Ration	G. 20.00 F. 20.71	4.00 4.27	57.00 57.63	.... 9.40	.... 7.99	12.00 10.29	Hominy feed, yellow hominy feed, barley feed, corn distillers' grains, cottonseed meal, corn gluten feed, soybean oil meal, wheat bran, wheat standard middlings, oat mill feed (oat hulls, oat shorts, oat midddlings), 1% salt, 1% iodized ground limestone, 1% bone meal, cane molasses.

Quaker Sugared Schumacher Coarse Feed	G.	10.00	3.00	67.00	....	....	12.00	Ground corn, hominy feed, yellow hominy feed, barley feed, cottonseed meal, soybean oil meal, low grade wheat flour, wheat standard middlings, oat mill feed, oat hulls, oat shorts, oat middlings, 1% salt, 1% iodized ground limestone, 1% bone meal, cane molasses.
	F.	11.90	3.80	68.97	7.30	8.03	9.41	
Sugared Vim Oat Mill Feed	G.	4.50	1.25	80.00	....	....	27.50	Oat mill feed (oat hulls, oat shorts, oat middlings) molasses.
	F.	3.71	1.19	82.15	5.97	6.98	28.23	
Queens Farms Dairy Cannonsville, N. Y.								
Queens Farms Roller Process Skimmed Milk Powder	G.	32.00	0.75	45.00	....	....	....	
	F.	36.86	0.81	49.08	8.36	4.89	....	
Ralston Purina Co. St. Johnsbury, Vt.								
Brooks' Fancy Wheat Mixed Feed	G.	15.00	3.50	63.50	....	....	8.50	Wheat bran, wheat middlings, red dog flour.
	F.	15.96	3.99	65.29	3.67	11.09	6.07	
Rio Grande Valley Citrus Exchange Weslaco, Texas								
Texsun Citrus Pulp	G.	6.00	2.50	69.00	....	....	11.00	Dried citrus peel, pulp and seed.
	F.	5.66	2.17	70.36	11.14	10.67	10.89	
Rodney Milling Co. Kansas City, Mo.								
Heart of America Pure Wheat Bran	G.	16.50	3.50	50.00	....	....	10.00	Wheat bran screenings not exceeding mill run.
	F.	18.04	4.48	61.14	6.41	9.93	9.59	
Russell-Miller Milling Co. Minneapolis, Minn.								
Occident Hard Wheat Bran	G.	14.00	4.00	61.50	....	....	11.50	
	F.	19.18	5.84	59.78	5.75	9.45	9.45	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Occident Hard Wheat Flour Middlings	G. 15.50 F. 20.97	4.00 5.29	60.00 59.61	.... 3.07	.... 11.06	5.00 3.85	
Occident Mixed Feed	G. 15.00 F. 18.91	4.50 5.28	61.50 60.28	.... 5.70	.... 9.83	9.50 7.98	Hard wheat, mill run of bran middlings, red dog.
Occident Standard Middlings	G. 15.00 F. 17.60	4.00 5.60	59.50 62.51	.... 5.01	.... 9.28	9.50 9.12	Hard wheat.
St. Albans Grain Co. St. Albans, Vt.							
Champlain Valley 20 Dairy Ration	G. 20.00 F. 22.37	4.00 4.33	52.00 56.27	.... 7.71	.... 9.32	8.50 7.10	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
Energy 20 Dairy Ration	G. 20.00 F. 22.42	3.50 3.68	50.00 56.58	.... 7.75	.... 9.57	8.00 6.32	Soybean oil meal, cottonseed meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
Hygrade 12 Fitting Ration Sweetened	G. 12.00 F. 14.89	4.00 4.40	60.00 63.99	.... 6.64	.... 10.08	8.00 6.26	Fortified cod liver oil, old process linseed meal, soybean oil meal, yellow corn meal, hominy feed, crimped oats, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.

Hygrade 20 Milk Ration Sweetened..	G.	20.00	4.00	54.00	....	....	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
	F.	21.23	4.00	57.90	7.83	9.04	7.34	
Hygrade 24 Milk Ration Sweetened..	G.	24.00	4.00	50.00	....	....	8.50	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
	F.	26.14	4.17	52.70	7.88	9.11	6.98	
Utility 20 Dairy Ration	G.	20.00	3.50	50.00	....	....	12.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten feed, brewers' dried grains, yellow corn meal, hominy feed, ground oats, ground barley, oat mill feed (oat hulls, oat shorts, oat middlings), wheat bran, wheat standard middlings, cane molasses, calcium carbonate, salt.
	F.	21.76	3.40	58.11	7.71	9.02	10.61	
Wirthmore 25 Balanced Ration Sweetened	G.	25.00	4.50	50.00	....	....	8.50	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, yellow corn meal, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, steamed bone meal, salt.
	F.	25.22	4.53	54.92	6.04	9.29	7.73	
Wirthmore Breeder Mash	G.	20.00	4.50	50.00	....	....	7.00	Fortified cod liver oil, dried skimmed milk, dried whey, liver meal, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, manganese carbonate, salt.
	F.	22.55	4.86	53.72	8.80	10.07	6.57	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Wirthmore Complete Chick Starter and Broiler Ration	G.	17.50	4.00	58.00	....	....	6.00	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, alfalfa leaf meal, yellow corn meal, wheat bran, wheat standard middlings, pulverized oats, ground oat groats, calcium carbonate, manganese carbonate, salt.
	F.	20.62	4.52	57.84	7.27	9.75	5.62	
Wirthmore Complete Egg Ration	G.	15.00	4.00	60.00	....	....	6.00	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, manganese carbonate, salt.
	F.	16.42	4.46	62.30	7.34	9.48	5.66	
Wirthmore Complete Growing Ration..	G.	14.00	3.75	65.00	....	....	6.00	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, salt.
	F.	16.69	4.24	61.25	7.88	9.94	6.33	
Wirthmore Complete Laying Ration..	G.	15.00	4.00	60.00	....	....	6.00	Fortified cod liver oil, dried skimmed milk, dried whey, liver meal, eat scraps, fish meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, manganese carbonate, salt.
	F.	15.76	4.61	60.84	7.78	11.01	5.19	

Wirthmore 16 Dairy Ration Sweetened	G.	16.00	4.00	55.00	....	....	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, yellow corn meal, hominy feed, ground barley, ground oats, wheat bran, wheat standard middlings, cane molasses, steamed bone meal, calcium carbonate, salt.
	F.	17.82	4.24	60.92	6.86	10.16	6.19	
Wirthmore 20 Dairy Ration Sweetened	G.	20.00	4.50	55.00	....	....	8.00	Old process linseed meal, soybean oil meal, cottonseed meal, corn gluten meal, corn gluten feed, corn distillers' dried grains, yellow corn meal, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, steamed bone meal, salt.
	F.	21.89	5.07	57.30	6.45	9.29	7.69	
Wirthmore 14 Fitting Ration	G.	14.00	4.00	60.00	....	....	7.00	Fortified cod liver oil, old process linseed meal, yellow corn meal, hominy feed, crimped oats, ground oats, ground barley, wheat bran, wheat standard middlings, cane molasses, fish meal, steamed bone meal, salt.
	F.	16.72	4.59	61.15	7.33	10.21	7.00	
Wirthmore Flour Middlings	G.	15.00	4.00	50.00	....	....	6.00	Wheat middlings and wheat red dog with mill run screenings.
	F.	15.19	3.90	65.95	3.95	11.01	4.36	
Wirthmore Fodder Greens	G.	10.00	3.00	60.00	....	....	15.00	Dried beet pulp, dried citrus pulp, choice chopped alfalfa, brewers' dried grains, wheat bran, hominy feed, cane molasses, calcium carbonate, salt.
	F.	13.18	3.23	65.94	7.69	9.96	11.66	
Wirthmore Growing Mash	G.	17.50	4.50	55.00	....	....	6.00	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, dehydrated alfalfa meal, yellow corn meal, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, salt.
	F.	17.60	4.79	57.74	10.08	9.79	5.70	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Wirthmore Laying Mash Containing Cod Liver Oil	G. 20.00 F. 21.01	4.00 4.67	50.00 54.30	.... 10.43	.... 9.59	7.00 5.74	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, ground wheat, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, manganese carbonate, salt.
Wirthmore Poultry Flush	G. 17.50 F. 18.39	4.00 4.19	58.00 59.85	.... 8.88	.... 8.69	5.00 5.34	Fortified cod liver oil, dried whey, liver meal, meat scraps, fish meal, soybean oil meal, alfalfa leaf meal, yellow corn meal, wheat bran, wheat standard middlings, wheat low grade feed flour, ground oats, calcium carbonate.
Wirthmore Record Ration	G. 20.00 F. 21.80	4.25 4.13	55.00 58.36	.... 6.13	.... 9.58	8.50 7.55	Old process linseed meal, soybean oil meal, corn gluten meal, corn distillers' dried grains, yellow corn meal, hominy feed, crimped oats, ground oats, ground barley, dried beet pulp, wheat bran, wheat standard middlings, cane molasses, fish meal, steamed bone meal, salt.
Wirthmore Special Broiler Feed	G. 20.00 F. 20.49	4.00 4.58	55.00 58.05	.... 6.66	.... 10.22	6.50 5.69	Fortified cod liver oil, dried whey, meat scraps, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, salt, manganese sulphate.
Wirthmore Stock Feed	G. 9.00 F. 11.55	4.00 4.87	70.00 67.77	.... 6.69	.... 9.12	9.50 9.49	Ground corn, hominy feed, ground oats, ground barley, oat mill feed (oat hulls, oat shorts, oat middlings), cane molasses, steamed bone meal, calcium carbonate, salt.

Wirthmore Turkey Breeder Ration ..	G. 24.00	4.50	50.00	....	....	7.00	Fortified cod liver oil, dried skimmed milk, dried whey, meat scraps, fish meal, soybean oil meal, corn gluten meal, dehydrated alfalfa meal, yellow corn meal, wheat bran, wheat standard middlings, ground oats, ground barley, calcium carbonate, salt, manganese carbonate.
	F. 23.52	5.40	51.58	9.74	9.76	5.42	
Wirthmore Wheat Feed	G. 15.00	3.75	50.00	....	....	8.00	Wheat bran and wheat red dog flour with mill run screenings.
	F. 16.72	4.93	63.63	4.71	10.01	7.61	
Saunders Mills Toledo, Ohio							
Carotene Brand Dehydrated Alfalfa Leaf Meal	G. 20.00	1.50	....	....	....	18.00	Made from dehydrated alfalfa hay.
	F. **18.30**	3.57	61.50	12.21	4.42	**20.21**	
Joseph E. Seagram & Sons Louisville, Ky.							
Seagram's Corn Distillers' Dried Grains	G. 28.00	8.00	....	....	....	14.00	Made principally from corn, also some barley, malt and rye.
	F. **27.20**	8.28	53.44	4.04	7.04	8.72	
Sherwin-Williams Co. Cleveland, Ohio							
Sherwin-Williams Pure Old Process Linseed Meal	G. 32.00	4.50	45.00	....	....	9.00	Flaxseed.
	F. 33.75	5.98	45.34	5.79	9.14	8.96	
Sherwin-Williams Pure Old Process 34% Linseed Meal	G. 34.00	4.50	42.00	....	....	9.00	Flaxseed.
	F. 34.19	6.75	45.32	5.79	7.95	8.34	
South End Hay and Grain Manchester, N. H.							
20% Dairy Ration	G. 20.00	4.00	53.00	....	....	8.00	Ground oats, wheat bran, yellow corn meal, cottonseed meal, brewers' grain, gluten meal, gluten feed, oil-meal, molasses, dicalcium phosphate, salt.
	F. 21.71	3.82	56.87	6.42	11.18	6.64	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Feedboard Egg Mash	G. 19.00 F. 20.09	4.00 4.65	54.00 56.41	.... 8.80	.... 10.05	7.00 5.47	Yellow corn meal, wheat bran, wheat flour middlings, pulverized oats, alfalfa leaf meal, corn gluten meal, soybean meal, meat and bone scraps, fish meal, dried skim milk, calcium carbonate, salt, fortified cod liver oil, manganese sulphate.
Feedboard Grower	G. 17.50 F. 17.73	4.00 4.33	54.50 59.92	.... 7.66	.... 10.36	6.50 5.55	Fine ground oats, wheat flour middlings, corn gluten meal, coarse yellow corn meal, wheat bran, meat and bone scraps, alfalfa leaf meal, corn gluten feed, soybean oil meal, fish meal, dried skim milk, calcium carbonate, manganese sulphate, salt, fortified cod liver oil.
Feedboard Starter and Broiler Ration	G. 20.00 F. 20.22	3.50 4.15	55.00 55.55	.... 9.18	.... 10.90	7.00 5.77	Dried skim milk, yellow corn meal, wheat flour middlings, meat and bone scraps, wheat bran, alfalfa leaf meal, corn gluten meal, fine pulverized oats, fish meal, soybean meal, calcium carbonate, cane molasses, salt, dicalcium phosphate, fortified cod liver oil, manganese sulphate.
Soya Processing Co. Wooster, Ohio							
Wooster Brand Soybean Oil Meal	G. 41.00 F. 44.91	4.00 4.39	36.00 33.37	.... 6.13	.... 11.20	7.00 5.09	
F. B. Spaulding Co. Lancaster, N. H.							
Spaulding's Dairy Feed	G. 20.00 F. 21.54	4.00 4.00	55.00 57.63	.... 6.45	.... 10.38	9.50 7.17	Linseed and/or soybean oil meal, 41% cottonseed meal, gluten feed, corn meal and/or hominy feed, wheat bran, rye distillers' and/or rye feed, salt, calcium carbonate, molasses, wheat bran may contain mill run screenings.

Spencer Kellogg & Sons Buffalo, N. Y.							
Kellogg's Old Process Linseed Meal ..	G. 37.00	4.50	41.00	....	....	9.00	
	F. 40.02	4.50	39.51	5.63	10.34	6.71	
Kellogg's Old Process Soybean Oil Meal	G. 41.00	4.00	36.00	....	....	7.00	Ground soybean oil cake.
	F. 44.39	4.81	34.19	5.91	10.70	5.24	
A. E. Staley Mfg. Co. Decatur, Ill.							
Staley's Corn Gluten Feed	G. 25.00	1.50	45.00	....	....	8.00	Corn gluten feed.
	F. 27.41	3.75	51.72	8.86	8.26	6.88	
Staley's 41% Protein Soybean Oil Meal	G. 41.00	4.00	36.00	....	....	7.00	Soybean oil meal.
	F. 44.00	5.07	34.87	5.82	10.24	5.91	
Standard Milling Co. Chicago, Ill.							
Kecker's Choice Wheat Bran	G. 13.50	3.50	60.50	....	....	12.00	Wheat bran, ground wheat screenings not exceeding mill run.
	F. 18.87	5.29	58.64	6.25	10.95	10.09	
Planet Feed	G. 15.00	4.00	63.00	....	....	8.00	Wheat bran and red dog wheat flour, no scourings, no screenings.
	F. 18.39	5.38	60.38	5.57	10.28	6.48	
Pure Wheat Bran	G. 14.00	4.00	62.00	....	....	12.00	Wheat bran, no screenings, no scourings.
	F. 16.77	5.15	60.60	6.96	10.52	11.29	
Red Turkey Pure Wheat Bran	G. 15.00	3.50	60.00	....	....	10.00	Pure wheat bran.
	F. 17.34	3.79	60.85	6.27	11.75	8.98	
Wheat Flour Middlings	G. 15.00	4.00	62.00	....	....	6.00	Wheat flour middlings and ground wheat screenings not exceeding mill run.
	F. 18.39	5.20	61.47	4.67	10.27	6.43	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs	Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
David Stott Flour Mills Detroit, Mich.								
Spring Wheat Bran and Wheat Screenings	G.	14.50	4.00	60.50	....	....	12.50	Wheat bran with ground clean wheat screenings not exceeding mill run.
	F.	17.29	5.08	60.96	6.74	9.93	10.11	
Stratton & Co. Concord, N. H.								
Stratton & Co.'s Fancy Fine White Middlings	G.	14.00	4.26	66.00	....	....	6.50	
	F.	15.98	4.42	64.32	4.12	11.16	4.41	
Stratton & Co.'s Fancy Wheat Bran	G.	14.00	4.00	64.00	....	....	11.00	
	F.	14.89	4.50	63.35	5.88	11.38	7.87	
Stratton & Co.'s Standard Wheat Middlings	G.	14.00	4.00	55.00	....	....	9.00	With ground screenings not exceeding mill run.
	F.	14.49	4.32	63.63	4.83	12.73	6.00	
Stratton & Co.'s Stock Feed 24	G.	7.50	2.83	66.00	....	....	14.43	Reground oat feed, oat middlings and shorts, corn bran, cracked corn siftings, best fine yellow corn meal.
	F.	6.92	2.88	75.34	3.62	11.24	15.63	
Stratton & Co.'s Wheat Mixed Feed	G.	13.50	4.11	63.00	....	....	7.13	Screenings not exceeding mill run.
	F.	14.89	4.37	65.09	5.54	10.11	7.52	
Stratton's White Clover 20% Dairy	G.	20.00	3.50	50.00	....	....	11.00	Linseed oil meal, corn gluten feed, brewers' dried grains, ground oats, corn gluten meal, soybean oil meal, corn distillers' grains, ground barley, wheat bran, malt sprouts, cottonseed meal, ground grain screenings from wheat, oats, barley, buckwheat and milo, molasses, calcium carbonate, salt.
	F.	20.07	3.34	57.68	9.37	9.54	9.93	

Sunshine Feed Store **Manchester, N. H.**							
Sunshine Laying Mash	G.	15.00	4.00	53.00	....	....	8.00	Dried buttermilk, dried skim milk, animal liver meal, meat scraps, fish meal, wheat standard middlings, wheat bran, corn gluten feed, corn gluten meal, dehydrated alfalfa meal, soybean oil meal, corn meal, ground oats, 1% ground limestone, 0.05% iron oxide, 0.0Q07% potassium iodide, 0.2% salt, sardine oil, 0.05% manganese sulphate equivalent to 123 p. p. m. of manganese. Found 134 p. p. m. Mn.
	F.	17.20	4.89	62.54	5.81	9.56	6.46	
Jacob Trinley & Sons **Linfield, Pa.**							
Favorite Complete Laying Mash	G.	18.00	4.00	50.00	....	....	7.50	Corn meal, meat scrap, buttermilk, soybean oil meal, wheat bran and middlings, ground oats, gluten, molasses, salt, calcium carbonate, bone meal, alfalfa meal, charcoal, concentrated cod liver oil, bone charcoal, soluble sulphur, flowers of sulphur, potassium iodide, iron sulphate, copper sulphate, manganese.
	F.	20.79	4.72	53.83	11.63	9.03	6.83	
Favorite Growing Mash	G.	16.00	4.00	55.00	....	....	8.00	Corn meal, ground oats, soybean oil meal, wheat bran, wheat middlings, dried buttermilk, meat scrap, alfalfa meal, cane molasses, bone meal, charcoal, salt, cod liver oil, pulverized oats, manganese sulphate.
	F.	19.31	4.99	58.97	7.21	9.52	7.27	
Limerick Laying Mash	G.	18.00	4.00	55.00	....	....	8.00	Soybean oil meal, corn meal, meat scrap, alfalfa meal, ground oats, corn gluten feed, wheat bran, wheat middlings, cane molasses, calcium carbonate, charcoal, bone meal, cod liver oil, salt.
	F.	22.02	4.59	56.49	8.22	8.68	7.11	
Limerick Stock Feed	G.	9.00	2.50	75.00	....	....	12.00	Soybean meal, cottonseed meal, corn meal, ground oats, oat mill by-products, molasses, salt.
	F.	11.82	2.90	69.18	5.82	10.28	11.21	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Mixing Special	G. 3.00 F. 5.31	1.00 1.17	65.00 70.46	.... 10.08	.... 12.98	16.00 15.82	Clipped oat by-products, oat hulls and clips, 20% molasses.
Real 20% Dairy Feed	G. 20.00 F. 22.28	4.00 4.21	55.00 58.10	.... 6.37	.... 9.04	11.00 8.23	Beet pulp, soybean oil meal, linseed oil meal, cottonseed meal, corn gluten feed, ground oats, corn meal, corn distillers' dried grains, wheat bran, bone meal, molasses, salt.
Real 24% Dairy Feed	G. 24.00 F. 26.97	4.00 4.77	50.00 52.47	.... 6.66	.... 9.13	11.00 7.81	Alfalfa meal, corn meal, cane molasses, linseed oil meal, cottonseed meal, soybean oil meal, wheat bran, wheat middlings, corn gluten feed, corn distillers' dried grains, corn gluten meal, bone meal, salt.
Real Hog Feed	G. 18.00 F. 21.36	4.00 4.14	55.00 54.76	.... 10.40	.... 9.34	10.00 9.11	Corn meal, ground oats, middlings, gluten feed, linseed oil meal, alfalfa meal, bone meal, soybean oil meal, tankage, molasses, charcoal, salt.
Real Starter and Developer Mash	G. 16.00 F. 20.00	4.00 5.11	55.00 55.52	.... 9.46	.... 9.91	6.00 5.69	Corn meal, alfalfa leaf meal, bone meal, dried buttermilk, fish meal, meat meal, wheat bran, oat meal middlings, molasses, cod liver oil, salt, soybean oil meal, manganese sulphate.
Supreme 85 Horse Feed	G. 9.00 F. 10.46	3.00 3.31	65.00 71.64	.... 3.35	.... 11.24	11.00 7.33	Cracked corn, crushed oats, alfalfa meal, molasses, ½% salt.

Trinley's 16 Dairy Feed	G. 16.00	3.50	55.00	....	....	11.00	Linseed oil meal, cottonseed meal, wheat bran, malt sprouts, soybean oil meal, ground grain screenings, alfalfa meal, corn meal, cane molasses, corn distillers' dried grains, bone meal, ground oats, salt, calcium carbonate.
	F. 16.81	4.36	62.01	7.72	9.10	10.79	
Trinley's 20% Dairy Feed	G. 20.00	4.00	55.00	....	....	11.00	Corn gluten feed, cottonseed meal, soybean oil meal, corn meal, linseed oil meal, corn distillers' dried grains, malt sprouts, ground grain screenings, alfalfa meal, brewers' dried grains, cane molasses, bone meal, calcium carbonate, salt.
	F. 21.01	4.71	57.80	7.50	8.98	11.00	
Trinley's 24 Dairy Feed	G. 24.00	4.00	50.00	....	....	11.00	Cottonseed meal, linseed oil meal, malt sprouts, corn gluten meal, ground grain screenings, wheat bran, soybean oil meal, corn distillers' dried grains, cane molasses, bone meal, corn meal, salt, calcium carbonate.
	F. 24.47	4.47	54.12	7.81	9.13	10.24	
United Farmers' Cooperative Creamery Association Morrisville, Vt.							
Dried Skim Milk	G. 32.00	0.50	....	....	....	....	
	F. 33.19	0.86	53.44	7.78	4.73	....	
Valley City Milling Co. Portland, Mich.							
Rowena Mixed Feed	G. 13.50	3.70	....	....	....	9.00	With ground wheat screenings not exceeding mill run.
	F. 15.24	4.48	64.65	5.22	10.41	7.73	
Rowena Pure Wheat Bran	G. 12.50	3.00	....	....	....	11.50	
	F. 15.37	3.87	64.12	6.19	10.45	8.34	
Rowena Wheat Middlings	G. 16.00	5.25	....	....	....	5.00	With ground wheat screenings not exceeding mill run.
	F. 16.72	4.60	64.26	3.66	10.76	4.62	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Voigt Milling Co. Grand Rapids, Mich.							
Voigt's Pure Winter Wheat Bran	G. 14.00	3.00	49.00	....	....	10.00	
	F. 15.37	3.98	63.41	5.21	12.03	7.01	
Wayne County Grangers' Feed Corp. Clyde, N. Y.							
Complete Laying Mash	G. 17.00	4.00	....	....	....	7.00	Corn meal, soybean meal, gluten meal, meat meal, choice alfalfa, wheat bran, wheat middlings, skimmed milk, pulverized heavy oats, fortified cod liver oil, manganese sulphate, iron sulphate, calcium carbonate, bone charcoal, iodized salt.
	F. 20.22	5.32	56.81	7.12	10.53	6.48	
Galen 24% Dairy Feed	G. 24.00	4.00	....	....	....	10.00	210 lbs. corn gluten feed, 300 lbs. corn distillers', 100 lbs. O. P. linseed oil meal, 50 lbs. brewers' grains, 260 lbs. choice cottonseed meal, 200 lbs. wheat bran (may contain screenings), 300 lbs. soybean oil meal, 160 lbs. hominy feed or corn meal, 100 lbs. ground oats, 160 lbs. cane molasses, 100 lbs. malt sprouts, 20 lbs. steamed bone meal, 20 lbs. ground limestone, 20 lbs. salt.
	F. 24.87	4.30	54.75	6.44	9.64	9.24	
Milk Producer 20% Dairy Feed	G. 20.00	3.00	....	....	....	12.00	Yellow corn meal, choice malt sprouts, soybean oil meal, corn gluten feed, ground oats, standard wheat bran (may contain mill run screenings), rye middlings, recleaned ground, bolted grain screenings, molasses, iodized salt, calcium carbonate.
	F. 20.09	3.89	57.85	7.15	11.02	10.87	

Milk Producer 24% Dairy Feed	G. 24.00	4.00	....	....	....	10.00	210 lbs. corn gluten feed, 300 lbs. corn distillers', 100 lbs. O. P. linseed oil meal, 50 lbs. brewers' grains, 260 lbs. choice cottonseed meal, 200 lbs. wheat bran (may contain screenings), 300 lbs. soybean oil meal, 160 lbs. hominy feed or corn meal, 100 lbs. ground oats, 160 lbs. cane molasses, 100 lbs. malt sprouts, 20 lbs. steamed bone meal, 20 lbs. ground limestone, 20 lbs. salt.
	F 22.21	3.75	55.62	7.14	11.28	8.69	
Satisfaction Laying Mash	G. 17.00	4.00	....	....	....	8.00	Meat scrap, bone meal, fish meal, dried whey, dried skim milk, ground oats, wheat, corn, barley, red dog wheat flour, wheat bran, wheat middlings with mill run screenings, corn gluten feed, alfalfa meal, ½% salt, cod liver oil, soybean oil meal, calcium carbonate.
	F. 19.83	4.73	56.89	7.76	10.79	6.39	
Superior Calf Grower	G. 15.00	4.00	50.00	....	....	8.00	Wheat bran, wheat flour middlings, corn germ meal, pulverized oats, corn gluten meal, soybean oil meal, linseed oil meal, locust bean meal, Nopco XX cod liver oil, calcium carbonate, steamed bone meal, iodized salt, iron sulphate.
	F. 16.64	4.51	60.97	7.96	9.92	6.15	
Superior 16% Dairy Feed	G. 16.00	4.00	....	....	....	10.00	300 lbs. corn distillers' grains, 75 lbs. soybean oil meal, 75 lbs. O. P. linseed oil meal, 170 lbs. corn gluten feed, 60 lbs. prime cottonseed meal, 475 lbs. ground barley, 400 lbs. wheat bran (may contain screenings), 100 lbs. ground oats, 40 lbs. malt sprouts, 100 lbs. corn meal or hominy feed, 140 lbs. cane molasses, iodized salt, bone charcoal, iron sulphate and calcium carbonate.
	F. 19.22	3.86	58.21	7.47	11.24	8.31	

Manufacturer / Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Superior 20% Dairy Feed	G. 20.00 F. 20.49	4.00 3.95	.... 57.64	.... 7.08	.... 10.84	10.00 9.65	100 lbs. choice cottonseed meal, 200 lbs. O. P. linseed oil meal, 200 lbs. corn gluten feed, 200 lbs. wheat bran (may contain screenings), 260 lbs. whole ground wheat, 100 lbs. ground oats, 200 lbs. corn meal, 265 lbs. corn distillers' grains, 40 lbs. brewers' grains, 50 lbs. choice malt sprouts, 150 lbs. cane molasses, 170 lbs. O. P. soybean oil meal, iodized salt, bone charcoal, iron sulphate and calcium carbonate.
Superior 24% Dairy Feed	G. 24.00 F. **22.44**	4.00 4.06	.... 55.56	.... 6.71	.... 11.23	10.00 9.04	420 lbs. corn distillers' grains, 240 lbs. soybean oil meal, 145 lbs. choice cottonseed meal, 140 lbs. O. P. linseed oil meal, 200 lbs. corn gluten feed, 50 lbs. corn gluten meal, 160 lbs. corn meal or hominy feed, 200 lbs. wheat bran (may contain screenings), 100 lbs. whole ground wheat, 40 lbs. malt sprouts, 100 lbs. ground oats, 140 lbs. cane molasses, iodized salt, bone charcoal, iron sulphate and calcium carbonate.
Superior Fitting Ration	G. 10.00 F. 15.68	4.00 4.00	.... 65.35	.... 4.54	.... 10.43	9.00 6.71	O. P. linseed oil meal, corn hominy feed, wheat bran (may contain screenings), molasses, salt, bone meal, calcium carbonate, ground oats, ground whole wheat.
H. K. Webster Co. Lawrence, Mass.							
Blue Seal Beet Pulp Dairy Ration ..	G. 22.00 F. 23.12	4.50 4.28	56.00 57.45	.... 6.38	.... 8.77	11.00 9.86	Beet pulp, soybean oil meal, gluten meal, malt sprouts, wheat bran, oat feed, choice cottonseed meal, peanut skins, germs and meal, hominy feed, brewers' grains, P. R. cane molasses, B. S. mineral mixture.

Blue Seal Breeders' Mash	G.	20.00	4.00	52.00	....	....	6.00	Dehydrated alfalfa leaf meal, dried skim milk with lactoflavin supplement, pure natural cod liver oil, wheat germ oil, H. G. meat and liver meals, 55% fish meal, corn gluten meal, P. R. cane molasses, no. 2 yellow corn meal, pure wheat bran, wheat flour middlings, fine ground heavy oats, ground rolled oats, ground barley, salt, calcium carbonate.
	F.	20.00	5.01	55.86	9.55	9.58	5.06	
Blue Seal 20 Dairy Ration	G.	20.00	4.00	54.00	....	....	9.00	Linseed oil meal (crushed cake), soybean oil meal (pea sized), ground oats, malt sprouts, corn oil meal, gluten feed, choice cottonseed meal, hominy feed, wheat bran, corn distillers' grains, dried brewers' grains, P. R. cane molasses, B. S. mineral mixture.
	F.	23.64	4.27	56.70	6.36	9.03	7.51	
Blue Seal Egg Mash Fortified with Cod Liver Oil	G.	19.00	4.50	54.00	....	....	6.00	No. 2 yellow corn meal, fine ground heavy oats, pure wheat bran, wheat flour middlings, H. G. meat scraps, 55% fish meal, dried skim milk, alfalfa leaf meal, P. R. cane molasses, corn gluten meal, calcium carbonate, salt, cod liver oil.
	F.	18.71	4.70	57.59	10.12	8.88	5.16	
Blue Seal Fitting Ration	G.	13.00	4.50	64.00	....	....	7.00	Fancy crimped oats, ground oats, linseed oil meal (crushed cake), soybean oil meal (pea sized), no. 2 yellow corn meal, corn oil meal, rolled barley, wheat bran, hominy feed, P. R. cane molasses, B. S. mineral mixture.
	F.	16.11	4.35	63.75	5.73	10.06	7.00	

Manufacturer Brand	Pounds in 100 lbs. of Feeding Stuffs						Certified by manufacturer to contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Blue Seal Hom-Mix 24% Dairy Ration	G. 24.00	4.50	53.00	....	....	9.00	Choice cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, corn gluten meal, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed oil meal, dried brewers' grains, P. R. cane molasses, B. S. mineral mixture.
	F. 24.12	4.83	56.36	6.47	8.22	9.66	
Blue Seal Laying Mash	G. 20.00	4.00	54.00	....	....	6.00	No. 2 yellow corn meal, pure wheat bran, fine ground heavy oats, H. G. meat scraps, corn gluten meal, wheat flour middlings, ground barley, ground fancy wheat, P. R. cane molasses, alfalfa leaf meal, dried skim milk, 55% fish meal, salt, calcium carbonate, cod liver oil.
	F. 19.63	4.47	56.28	9.14	10.48	5.09	
Blue Seal Special 20% Dairy Ration	G. 20.00	4.50	55.00	....	....	10.00	Choice cottonseed meal, soybean oil meal, corn oil meal, malt sprouts, gluten feed, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed oil meal, dried brewers' grains, corn distillers' grains, P. R. cane molasses, B. S. mineral mixture.
	F. 21.59	4.15	59.10	6.51	8.65	11.05	
Wilson & Co. **Cambridge, Mass.**							
Register Brand 45% Meat and Bone Scrap	G. 45.00	8.00	....	....	....	....	
	F. 44.22	11.99	....	35.85	5.46	....	
Register Brand 50% Meat and Bone Scrap	G. 50.00	8.00	....	....	....	....	
	F. 50.35	12.44	....	30.52	5.26	....	
Register Brand 55% Meat Scrap	G. 55.00	8.00	....	....	....	....	
	F. 54.29	11.00	....	26.16	5.33	....	

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